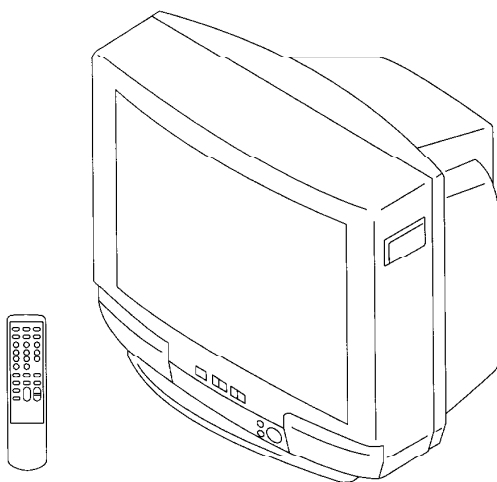


# SERVICE MANUAL

## BG-1S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-T29SF8</i>	<i>RM-870</i>	<i>Australia</i>	<i>SCC-J99E-A</i>				
<i>KV-T29SF81</i>	<i>RM-870</i>	<i>New Zealand</i>	<i>SCC-K37D-A</i>				
<i>KV-T29SZ8</i>	<i>RM-870</i>	<i>Australia</i>	<i>SCC-J99D-A</i>				



TRINITRON® COLOR TV  
**SONY®**

# **SPECIFICATIONS**

		Note
<b>Power requirements</b>	110-240 V AC, 50/60 Hz	
<b>Power consumption (W)</b>	Indicated on the rear of the TV	
<b>Television system</b>	B/G	
<b>Color system</b>	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	
<b>Stereo system</b>	A2 Stereo (German) B/G	KV-T29SZ8 only
<b>Teletext language</b>	English, German, Swedish, Italian, French, Spanish	KV-T29SF81 only
<b>Channel coverage</b>	VHF: 1 to 11/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	New Zealand only
	VHF: 0 to 12, 5A, 6A/UHF: 28 to 69/CATV: S01 to S03, S1 to S41	Australia only
<b>Audio output (speaker)</b>	5W × 2	
<b>Inputs</b>	Antenna: 75 ohms	
	VIDEO IN jacks: phono jacks	
	Video: 1 Vp-p, 75 ohms	
	Audio: 500 mVrms, high impedance	
<b>Outputs</b>	Headphone jack: minijack	
	MONITOR OUT jacks: phono jacks	
	Video: 1 Vp-p, 75 ohms	
	Audio: 500 mVrms	
<b>Picture tube</b>	29 in.	
<b>Tube size (cm)</b>	72	Measured diagonally
<b>Screen size (cm)</b>	68	Measured diagonally
<b>Dimensions (w/h/d, mm)</b>	686 × 617 × 537	
<b>Mass (kg)</b>	43	

Design and specifications are subject to change without notice.

## **CAUTION**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## **SAFETY-RELATED COMPONENT WARNING!!**

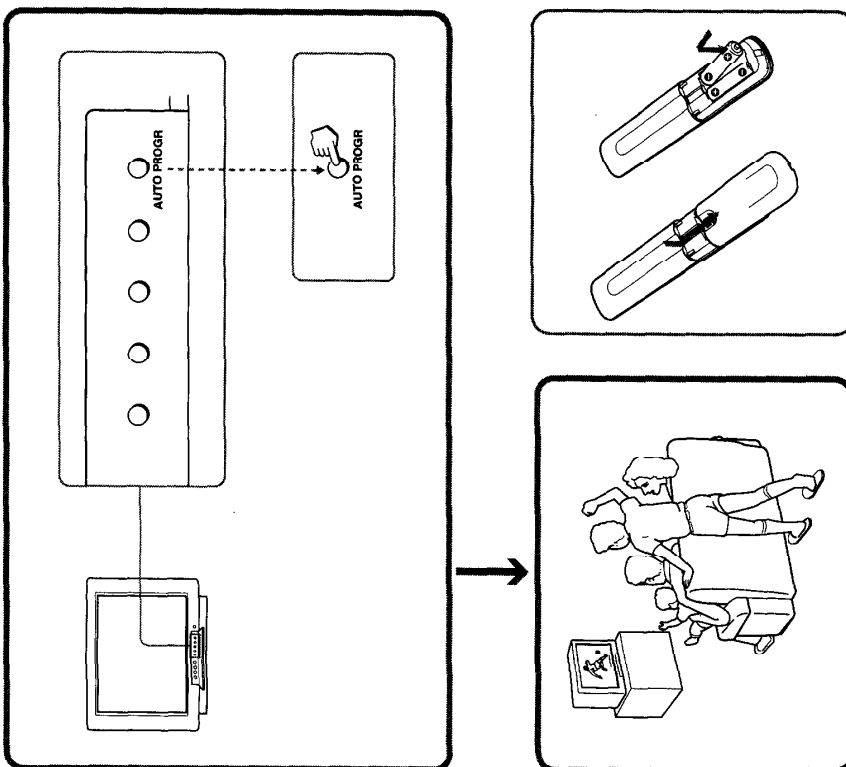
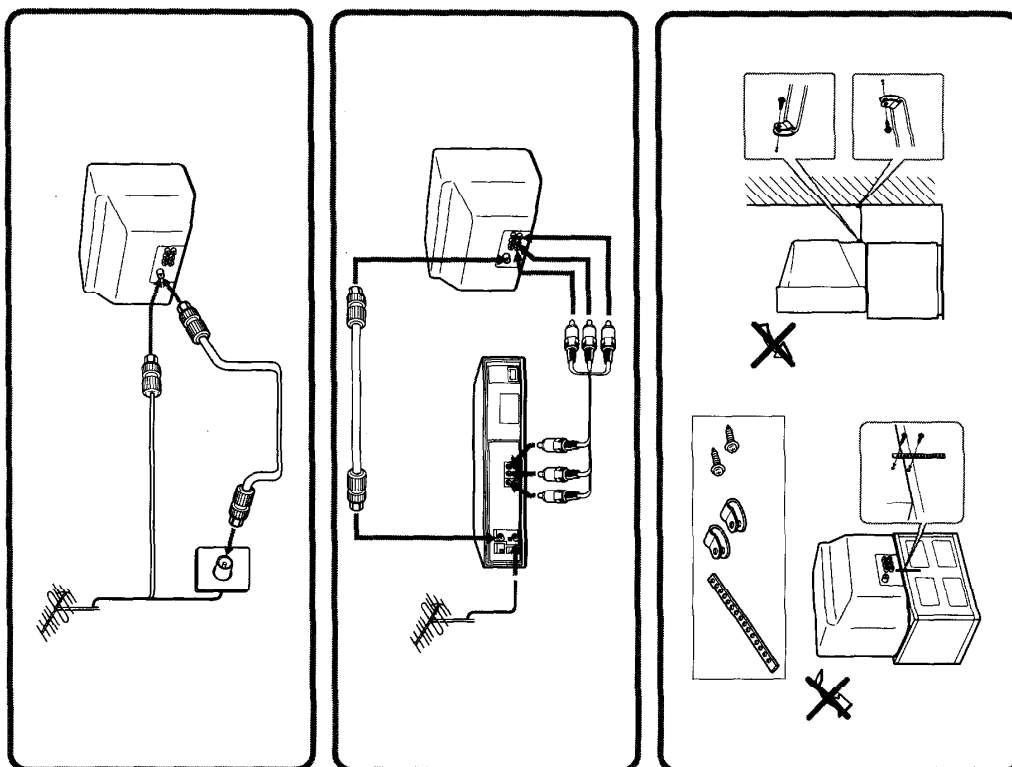
COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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# SECTION 1 GENERAL

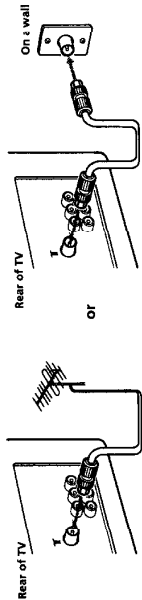
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.



## Connections

### Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

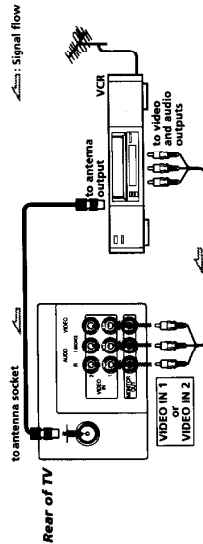
Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the "I" (antenna) socket at the rear of the TV.



### Connecting optional equipment

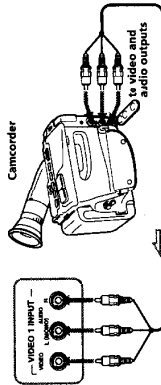
You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

### Connecting video equipment using video input jacks



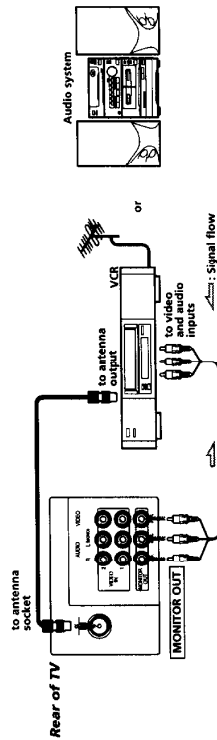
**When connecting a monaural VCR**  
Connect the yellow plug to VIDEO and the black plug to AUDIO-L (MONO).

Front of TV



**When using the video input jacks**  
Do not connect video equipment to the video input jacks at the front and the rear (VIDEO IN 1) of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

### Connecting audio/video equipment using MONITOR OUT jacks



**When recording through the MONITOR OUT jacks**  
If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

## Operations

### Presetting channels

#### Presetting channels automatically

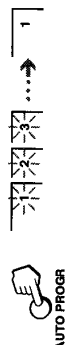
You can preset up to 80 TV channels in numerical sequence from program position 1.



#### 1 Press POWER.

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

#### 2 Press AUTO PRGR.



#### To start presetting channels automatically from the specified program position

- 1 Press MANUAL PRGR.
- 2 Press PROGR +/- to select the program position.
- 3 Press AUTO PRGR.

#### Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

- 1 Press MANUAL PRGR.
- 2 Press PROGR +/- until the required program position appears on the screen.
- 3 Press VOLUME +/- on the TV until the required channel picture appears on the screen.
- 4 Press MANUAL PRGR.

#### Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

- 1 Press PROGR +/- until the unused or unwanted program position appears on the screen.
- 2 Press MANUAL PRGR.
- 3 Press PC MODE on the remote commander.
- 4 Press MANUAL PRGR.

To cancel the skip setting  
Preset the channel manually or automatically again.

### Watching the TV

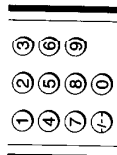
#### 1 Press POWER to turn the TV on.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

#### 2 Select the TV channel you want to watch.

To select a channel directly  
Press a number button.



To select a two-digit channel, press "+/-" before the number buttons.  
For example: to select channel 25, press "+/-" and then "2" and "5."



To scan through channels  
Press PROGR +/- until the channel you want appears.

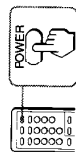


#### 3 Press VOL +/- to adjust the volume.



#### Switching off the TV

To switch off the TV temporarily, press POWER on the remote commander.



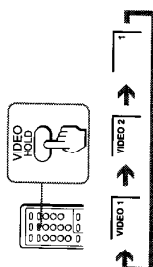
To switch off the TV completely, press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

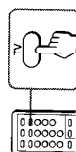


#### Watching the video input

Press VIDEO/HOLD.

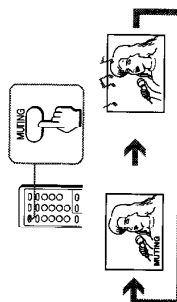


To watch TV, press TV.



#### Muting the sound

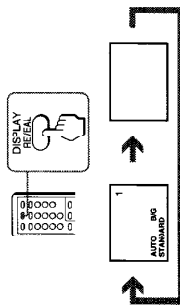
Press MUTING.



## Displaying on-screen information

### Press DISPLAY/REVEAL.

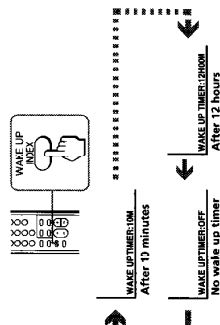
The program position, local system, and TV settings are displayed on the screen.



## Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

- 1 Press **WAKE UP/INDEX** repeatedly to set the timer.  
The on-screen display appears and the WAKE UP indicator lights up.



- 2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.

- 3 Press **POWER** on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

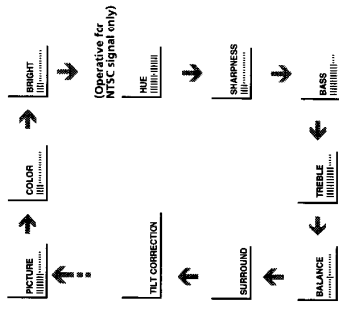
### Notes

- The Wake Up Timer starts immediately after the on-screen display disappears.

## 8 Operations

## Adjusting the picture and sound

Each time you press **SELECT**, the screen changes as follows:



### Note on TILT CORRECTION

- The earth's magnetic field may affect the tilt of the TV picture. You can adjust the picture tilt using **TILT CORRECTION**.

- 2 Press **+** or **-** to adjust the item.



- 3 To adjust other items, repeat steps 1 and 2.

### Note

- You can also use **VOLUME +/-** on the TV to adjust the picture and sound settings.

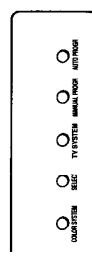
### If the color of the picture is abnormal

Press **COLOR SYSTEM** or adjust the color setting until the color becomes normal.

### Note

- Normally set **COLOR SYSTEM** to **AUTO**.

### Front of TV



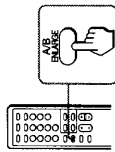
## Operations | 9

## Selecting a stereo or bilingual program

■ **KV-T29SZ8 only**

Press **A/B/ENLARGE** repeatedly until you receive the sound you want.

The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



**When receiving a A2 (German) program**

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	STEREO (Stereo sound)
A2 (German) bilingual	STEREO (Main sound) → STEREO (Sub sound)

**Receiving area for A2 (German) program**

System	Receiving area
A2 (German)	Australia, Malaysia, Thailand, etc.

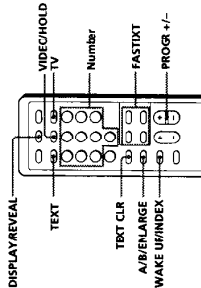
**Note**

- If the signal is very weak, the sound becomes monaural automatically.

## Viewing Teletext

■ **KV-T29SF81 only**

For the KV-T29SF8 and KV-T29SZ8 models, you need the Teletext adaptor OFK-T200G (not supplied) to view the Teletext broadcast. You can request your nearest authorized service center or dealer to install the Teletext adaptor into your TV.



**Displaying Teletext**

- 1 Select a TV channel which carries the Teletext broadcast you want to watch.
- 2 Press **TEXT** to display the Teletext.  
A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 00 is displayed at the top left corner of the screen.

To cancel the Teletext display, press **TV**.

**Superimposing a Teletext page on the TV picture**

Press **TEXT**.  
Each time you press **TEXT**, the screen changes as follows:



**Checking the contents of a Teletext service (INDEX)**

Press **WAKEUP/INDEX** to display an overview of the Teletext contents and page numbers.

**Using FASTEXT**

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.

Press the color button which corresponds to the color-coded menu.

The page is displayed after a few seconds.

**Selecting a Teletext page**

To input the three-digit page number of the Teletext page, press the number buttons.  
If you make a mistake, key **7** in the correct page number again.

To access the next or previous page, press **PROG +/-**.

**Holding a Teletext page (subpage)**

Press **VIDEO/HOLD**.  
The HOLD symbol "H" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press **VIDEO/HOLD** again or **TEXT**.

**Revealing concealed information**

Press **DISP./AY/REVEAL**.  
To conceal the information, press **DISPLAY/REVEAL** again.

**Enlarging the Teletext display**

Press **A/B/ENLARGE**.  
Each time you press **A/B/ENLARGE**, the Teletext display changes as follows:



**Waiting for a Teletext page while watching a TV program (TEXT CLEAR)**

- 1 Key in the page number of the Teletext that you want to refer, then press **TEXT CLR**.
- 2 When the page number is displayed on the screen, press **TEXT** to switch the Teletext on.

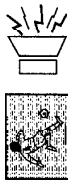


## Additional Information

### Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.  
If the problem persists, contact your nearest authorized service center or dealer.

#### Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.

#### Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

#### Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

#### Notes

- When you switch on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.

#### No picture No sound



- Press POWER.
- Check the antenna connection.
- Check the VCR connections.
- Check the power cord connection.
- Check the standby mode.

#### Good picture No sound



- Press VOLUME +.
- Press MUTING.
- Press A/B/ENLARGE (KV-T29SZ8 only).

#### No color



- Adjust the COLOR level in the on-screen display.
- Check the COLOR SYSTEM setting.

#### TV cabinet creaks

- Even if the picture or the sound is normal, sometimes make the TV cabinet expand or contract making a noise. This does not indicate a malfunction.

#### Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

#### Note on the TV SYSTEM button

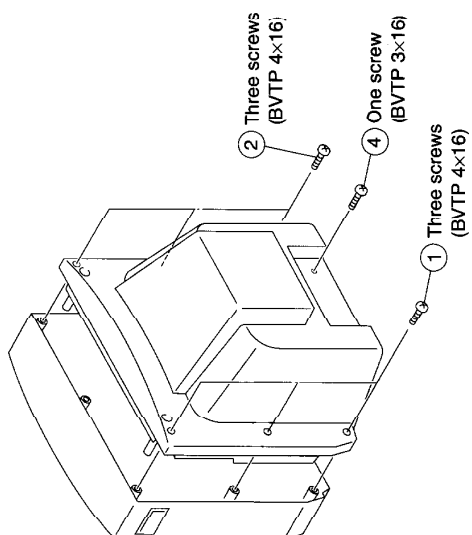
- The TV SYSTEM button is not used on your TV.

#### WARNING

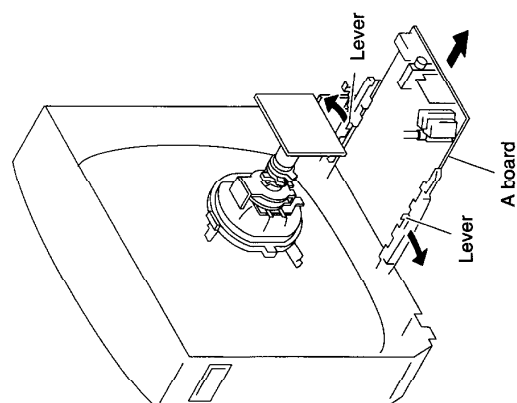
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

## SECTION 2 DISASSEMBLY

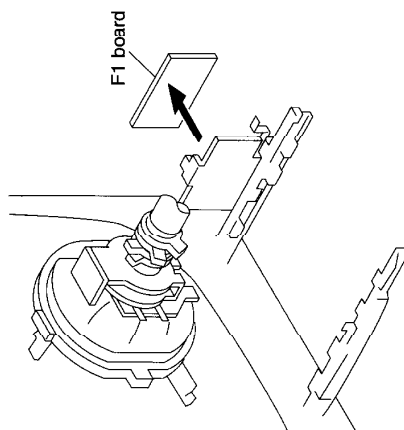
### 2-1. REAR COVER REMOVAL



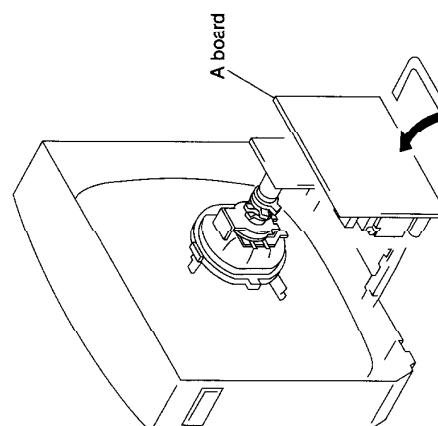
### 2-2. A BOARD REMOVAL



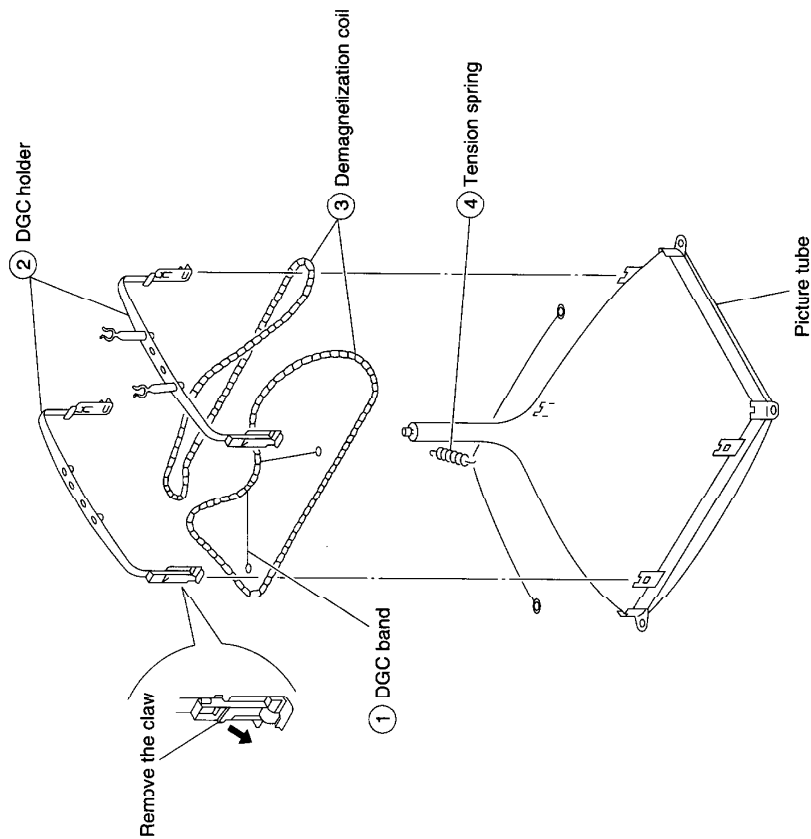
### 2-3. F1 BOARD REMOVAL



### 2-4. SERVICE POSITION



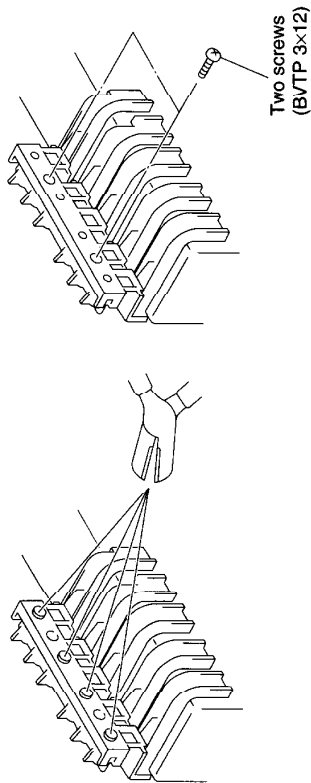
2-6. DEMAGNETIZATION COIL REMOVAL



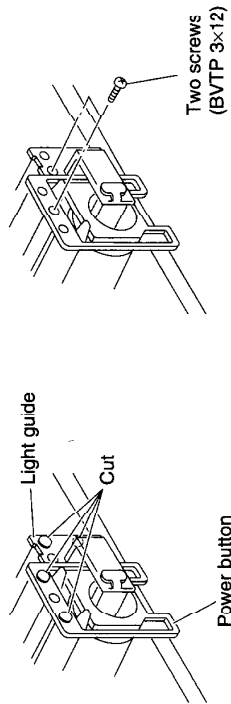
2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

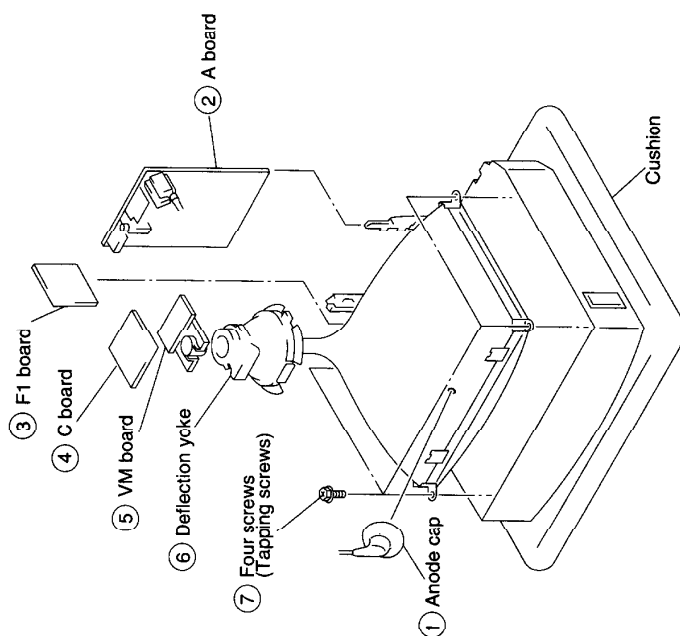
2-5-1. REPLACEMENT OF MULTI BUTTON



2-5-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON



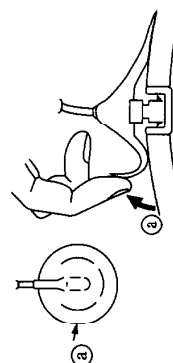
## 2-7. PICTURE TUBE REMOVAL



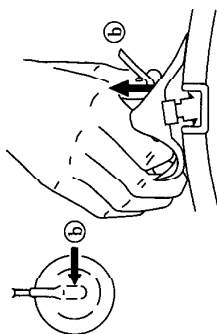
### • REMOVAL OF ANODE-CAP

**NOTE** : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

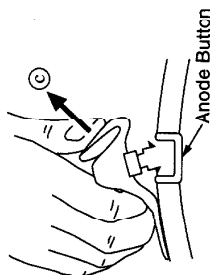
### • REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



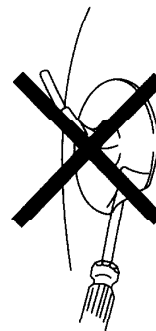
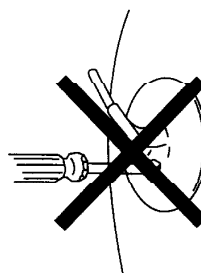
- ② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow (b).



- ③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c).

### • HOW TO HANDLE ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
  - ② Do not press the rubber too hard so as not to damage the inside of anode-caps.
  - ③ A metal fitting called the shutter-hook terminal is built into the rubber.
  - ④ Do not turn the foot of rubber over too hard.
- The shutter-hook terminal will stick out or damage the rubber.



## SECTION 3 SET-UP ADJUSTMENTS

**KV-T29SF8/T29SF81/T29SZ8**  
**RM-870**

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control ..... normal  
BRIGHTNESS control ..... normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

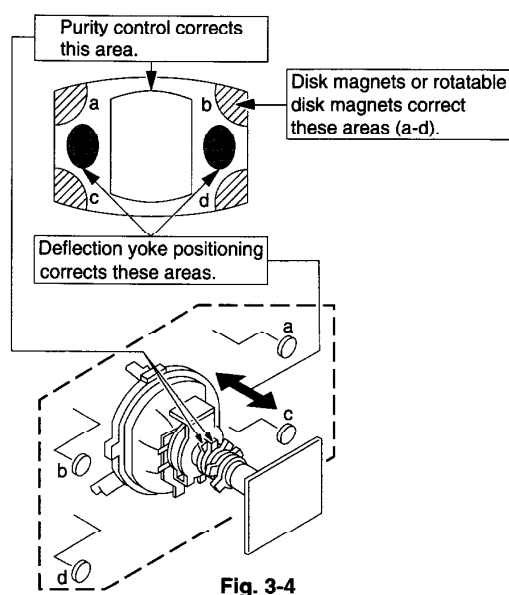
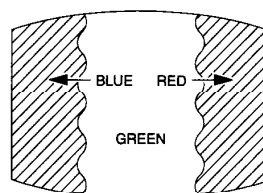
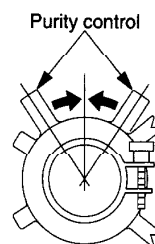
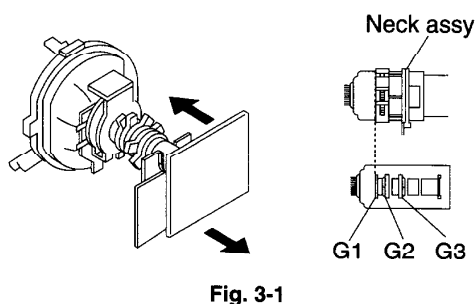
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

### Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

1. Input a white signal with the pattern generator.  
Contrast } normal  
Brightness }
2. Position neck assy as shown in Figure 3-1.
3. Set the pattern generator raster signal to green.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.  
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

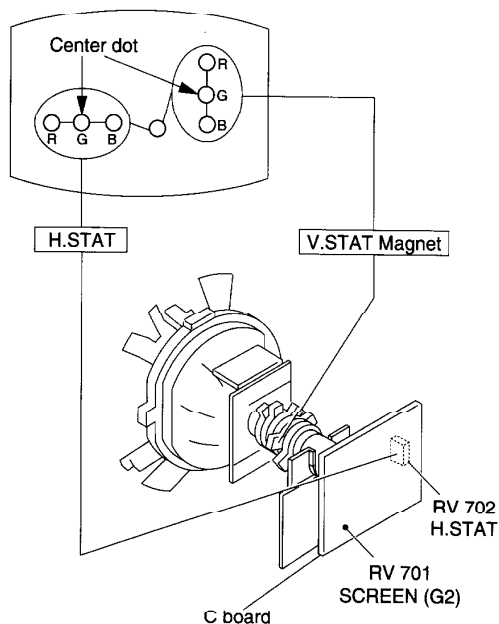


### 3-2. CONVERGENCE

#### Preparation :

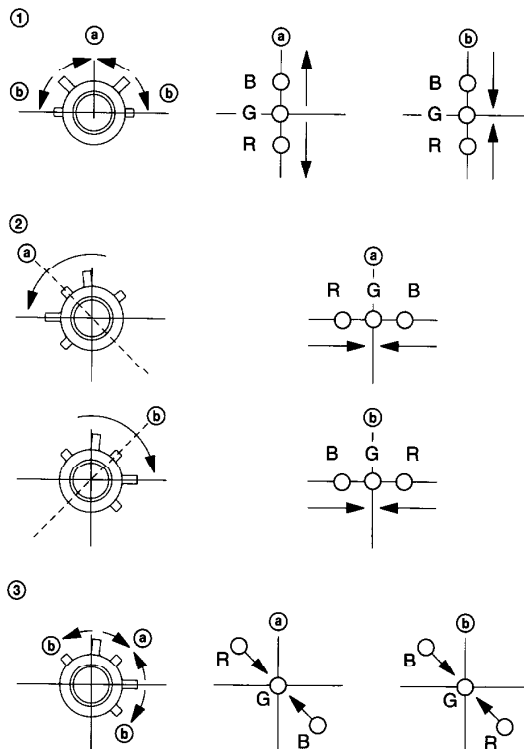
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and Vertical Static Convergence



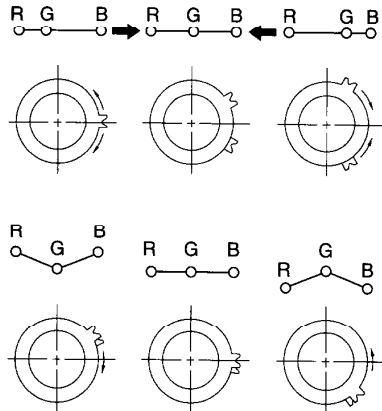
1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR magnet so that the red, green, and blue points are on top of each other at the center of the screen.

- If the V.STAT magnet is moved in the direction of the ㉓ and ㉔ arrows, the red, green, and blue points move as shown below.



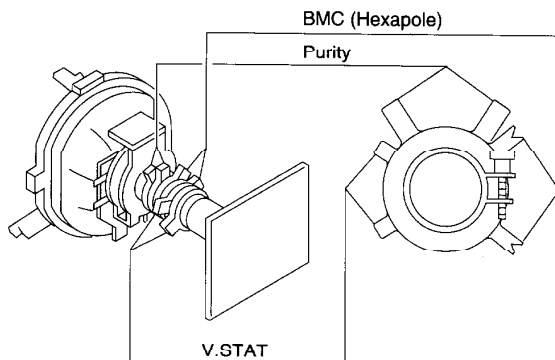
- Operation of BMC (Hexapole) Magnet

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



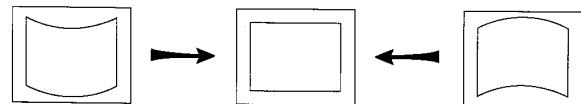
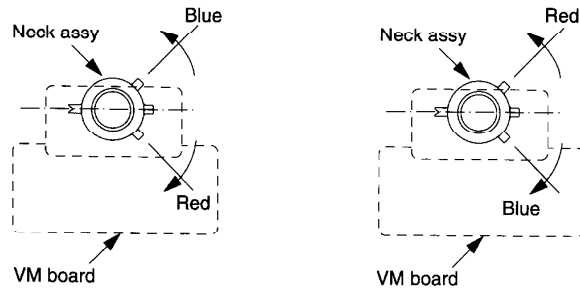
- Then use the H.STAT VR to adjust the red, green, and blue dots so that they coincide at the center of screen.

The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.



- Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to "MIN" and [BRIGHTNESS] to "STANDARD".
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



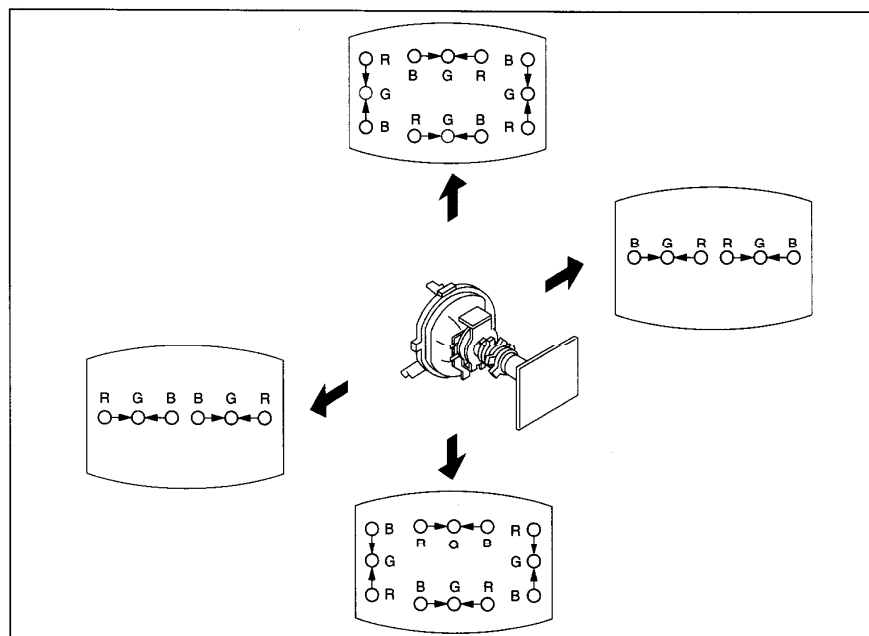
**Note:** 1) The Red and Blue magnets should be equally far from the horizontal center line.

- 2) Do not separate the Red and Blue magnets too far.  
(Less than 8 mm)

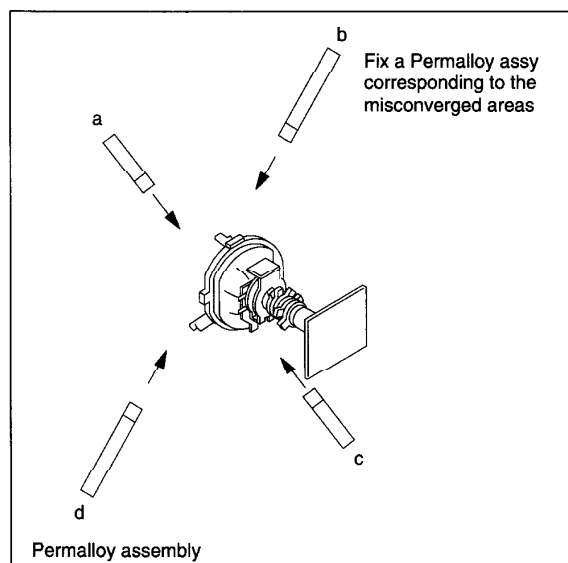
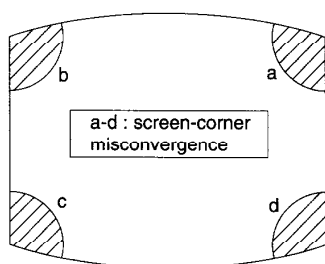
## (2) Dynamic Convergence Adjustment

### Preparation :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.
  2. Remove the deflection yoke spacer.
  3. Move the deflection yoke as shown in the figure below and optimize the convergence.
  4. Tighten the deflection yoke screws.
  5. Install the deflection yoke spacer.



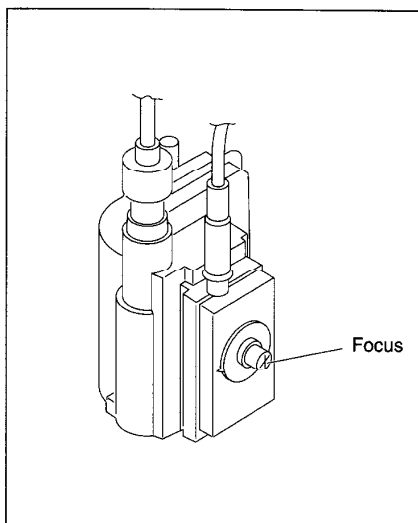
## (3) Screen-corner Convergence





### 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



Note: Screen VR is not use.

#### a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

#### b. METHOD OF CANCELLATION FROM SERVICE MODE

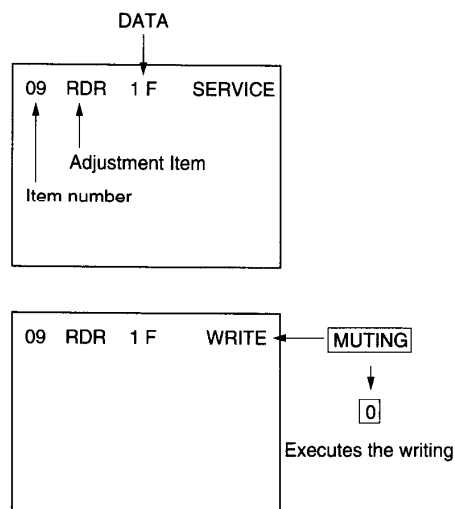
Set the standby condition (Press **POWER** button on the commander) and then press **POWER** button again, hereupon it becomes TV mode.

#### c. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN) to select an item of adjustments.
- 3) Press **MUTING** button and it will indicate WRITE on screen.
- 4) Press **0** button to write into memory.

#### d. MEMORY WRITE CONFIRMATION METHOD

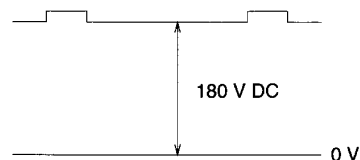
- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.



### 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

#### 1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G, and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



#### 2. WHITE BALANCE ADJUSTMENTS

- 1) Set the Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with **1** and **4**, and then set the level to 25 with **3** and **6**.
- 5) Select GDR(0A) and BDR(0B) with **1** and **4** and adjust the level with **3** and **6** for the best white balance.
- 6) Write into the memory by pressing **MUTING** → then **0**.

## SECTION 4

### SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.  
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

<b>Device</b>	NONVOLATILE MEMORY	—	Y/C JUNGLE	—	—	AUDIO PROCESSOR (TDA8424)
<b>Flickering Frequency</b>	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.

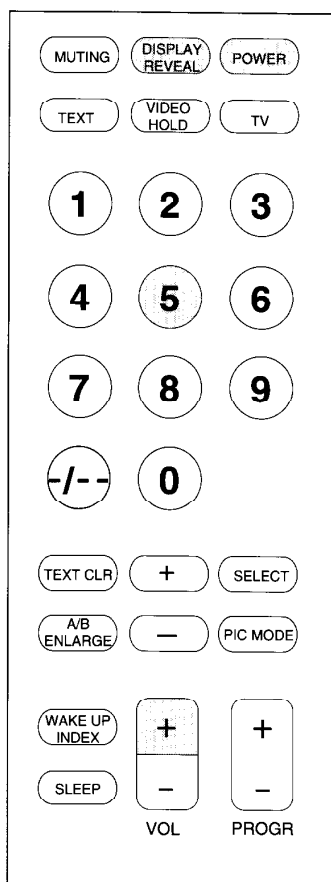
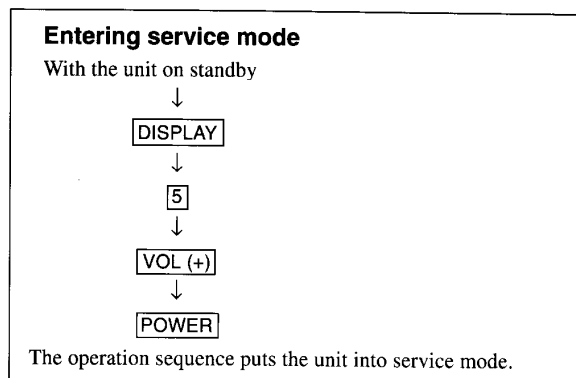
If an error is found, the responding LED will start flickering.

So, if more than 1 device have failed, only the one on the left side will flicker.

## SECTION 5 CIRCUIT ADJUSTMENTS

### 5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

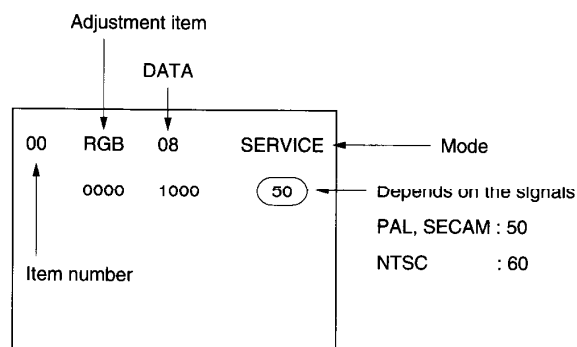


RM-870

[1], [4]	Raise/lower the service item number
[3], [6]	Raise/lower the data
MUTING	Writes
[0]	Executes the writing

[7], [0]	The data all becomes the values in memory
[8], [0]	User control all goes to the standard state
[5], [0]	Service data initialization (Be sure not to use usually.)
[2], [0]	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :



[1], [4]	Select the adjustment item.
[3], [6]	Raise/lower the data.
MUTING	Writes
[0]	Executes the writing.

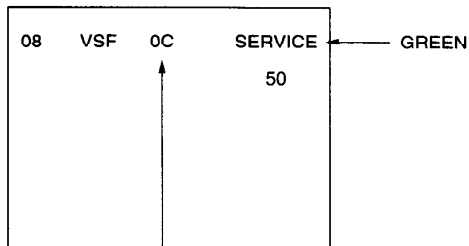
## 5-2. ADJUSTMENT METHOD

Item Number 08

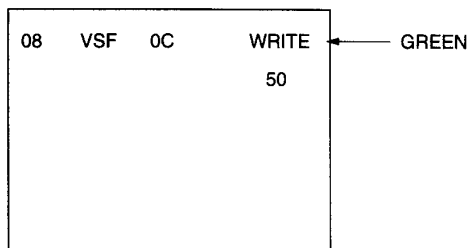
This explanation uses V-SHIFT as an example.

1. Select 08 V-SHIFT with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the [MUTING] button.
5. Execute the writing with the [0] button. (The WRITE display returns to green SERVICE.)

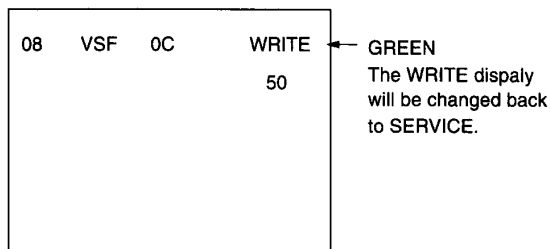
Use the same method for Items Number 00-49. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].



Adjust with the [3] and [6] buttons.



Written with the [MUTING].



Write executed with [0].

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data			Note	Device
00	HSF	00-3F	24	50: 24	60: 24		H SHIFT	TDA8375
01	HSZ	00-3F	23	50: 1F	60: 1F		H SIZE	TDA8375
02	PAP	00-3F	21	50: 2E	60: 2D		PIN AMPLITUDE	TDA8375
03	CNP	00-3F	29	50: 23	60: 26		CORNER PIN	TDA8375
04	TLT	00-3F	20	50: 21	60: 25		TILT	TDA8375
05	VSL	00-3F	20	50: 1D	60: 1D		V SLOPE	TDA8375
06	VAP	00-3F	1D	50: 38	60: 34		V AMPLITUDE	TDA8375
07	SCR	00-3F	20	50: 20	60: 20		S CORRECTION	TDA8375
08	VSF	00-3F	20	50: 2A	60: 2B		V SHIFT	TDA8375
09	RDR	00-3F	25	26			WHITE POINT R	TDA8375
0A	GDR	00-3F	20				WHITE POINT G	TDA8375
0B	BDR	00-3F	20				WHITE POINT B	TDA8375
0C	FO	00-02	00	TV: 00	VIDEO: 03	TEXT: 01	PHI-1 TIME CONSTANT	TDA8375
0D	AGC	00-3F	30	TV: 2A	VIDEO: 2A	TEXT: 2A	AGC TAKE OVER	TDA8375
0E	VSW	00-01	00	TV: 00	VIDEO: 01	TEXT: 00	VIDEO MUTE	TDA8375
0F	FOR	00-03	03	03			FORCED FIELD FREQ.	TDA8375
10	DL	00-01	00				INTERLACE	TDA8375
11	POC	00-01	00				SYNCHRO MODE FIX	TDA8375
12	VID	00-01	00				VIDEO IDENT MODE	TDA8375
13	HCO	00-01	00				EHT TRACKING MODE	TDA8375
14	EVG	00-01	00				ENABLE V GUARD	TDA8375
15	SBL	00-01	00				SERVICE BLANKING	TDA8375
16	PRD	00-01	00				OVER-VOLTAGE INPUT	TDA8375
17	COR	00-01	00				NOISE CORING PEAK	TDA8375
18	PMX	00-3F	27	2D			PICTURE MAX DATA	TDA8375
19	PMI	00-3F	05	0			PICTURE MIN DATA	TDA8375
1A	SBR	00-7F	4B	50			SUB-BRIGHTNESS	TDA8375
1B	SHU	00-0F	07	06			SUB-HUE	TDA8375
1C	SSH	00-03	01	TV: 00	VIDEO: 01		SUB-SHARPNESS	TDA8375
1D	SC1	00-3F	1F	50: 22	60: 29		SUB-COLOR LOWER	TDA8375
1E	SC2	00-3F	0B	50: 0C	60: 0F		SUB-COLOR HIGHER	TDA8375
1F	AIP	00-7F	3F				ADJUSTMENT IF PLL	TDA8375
20	VZM	00-3F	19				VERTICAL ZOOM	TDA8375
21	FAW	00-FF	08				NICAM FAW THRESH	MSP3410
22	CTM	00-FF	08				NICAM ERROR BIT (MONO)	MSP3410
23	CNT	00-FF	50				NICAM ERROR BIT (NICAM)	MSP3410
24	WCD	00-FF	0A				W. G. CHANGE DATA	MSP3410
25	WST	00-FF	15				W. G. STEREO CUT POINT	MSP3410
26	WTM	00-FF	50				W. G. TIMER CHANGE	MSP3410
27	WBT	00-FF	EA				W. G. BILINGUAL	MSP3410
28	ACG	00-01	01				AGC AUTO/CONST.	MSP3410
29	CDB	00-3F	28				AGC GAIN CONST.	MSP3410
2A	FGP	00-7F	24				FM (BG, I, DK) PRESCALE	MSP3410
2B	FMP	00-7F	40				FM (M) PRESCALE	MSP3410
2C	WGP	00-7F	3C				W. G. PRESCALE	MSP3410
2D	NIP	00-7F	7F				NICAM PLESCALE	MSP3410
2E	CRM	00-01	00				CARRIOR MUTE	MSP3410
2F	CMI	00-03	00				CARRIOR MUTE LEVEL	MSP3410
30	ACO	00-01	01				AUDIO CLOCK OUT	MSP3410
31	WAC	00-0F	01				W. G. AGREEMENT COUNT	MSP3410
32	DLG	00-FF	30				STEREO SEARCH DELAY	MSP3410
33	DLG	00-FF	10				W/G SEARCH DELAY	MSP3410
34	TXP	00-0F	09	0D			TEXT PICTURE CONT.	SAA5281
35	MXP	00-0F	0D	0F			TEXT MIX MODE PIC.	SAA5281

**Adjustment Item Table**

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
36	BKP	00-3F	00		BLK OFF PICTURE	CXP85200
37	HBL	00-3F	25		H BLK LEFT WIDTH	CXP85200
38	HBR	00-3F	20		H BLK RIGHT WIDTH	CXP85200
39	VBH	00-7F	00		V BLK HIGHT WIDTH	CXP85200
3A	VBL	00-FF	FF		V BLK LOW WIDTH	CXP85200
3B	ODL	00-FF	10		POWER ON DELAY	CXP85200
3C	OFR	00-0F	00		REMO. CON. RGB OUT	CXP85200
3D	OFM	00-0F	00		MAIN POWER RGB OUT	CXP85200
3E	OSH	00-3F	0A		OSD POSITION H	CXP85200
3F	DKS	00-01	00		D/K STEREO SEARCH	CXP85200
40	MUT	00-01	00		NO SYNC. MUTE	CXP85200
41	DWZ	00-01	00		DISEBLE WIDEZOOM	CXP85200
42	ABL	00-01	00		BRIGHT ABL	CXP85200
43	DTV	00-01	00		DISABLE TV SYS KEY	CXP85200
44	SCM	00-01	00		SECAM TRAP ACTIVE	CXP85200
45	ROC	00-0F	07		ROTATION CENTER	CXP85200
46	ROS	00-07	03		ROTATION STEP WID	CXP85200
47	DVM	00-01	00		DISABLE VM MODE	CXP85200
48	OP0	00-FF	40	70	OPTION 0	CXP85200
49	OP1	00-FF	07	4D	OPTION 1	CXP85200

**NOTE**

- Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.  
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

**ITEM INFORMATION**

- 10. DL: TV/MIX Mode 0=Interlace 1=interlace, TEXT Mode 0=interlace 1=Interlace
- 42. ABL: Bright ABL ON/OFF ON=1 OFF=0
- 48. OP0 • 49. OP1  
Input data are different according to models.  
AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424  
TV System : 00 → Multi model, 01 → B/G, 10 → D/K.I, 11 → B/G D/K  
NTSC, SECAM, Chin  
Shrp : Dynamic Mode @ 1 → Sharpness 50%, 0 → Sharpness 70%.  
VM Operation : 0 → OFF, 1 → ON

**No. 48 OP0 \* Input data are different according to models**

Item	–	AV Input		Shrp	–	–	–	Saudi
KV-T29SF8	0	0	1	1	0	0	0	0
KV-T29SF81	0	0	1	1	0	0	0	0
KV-T29SZ8	0	1	1	1	0	0	0	0

**No. 49 OP1**

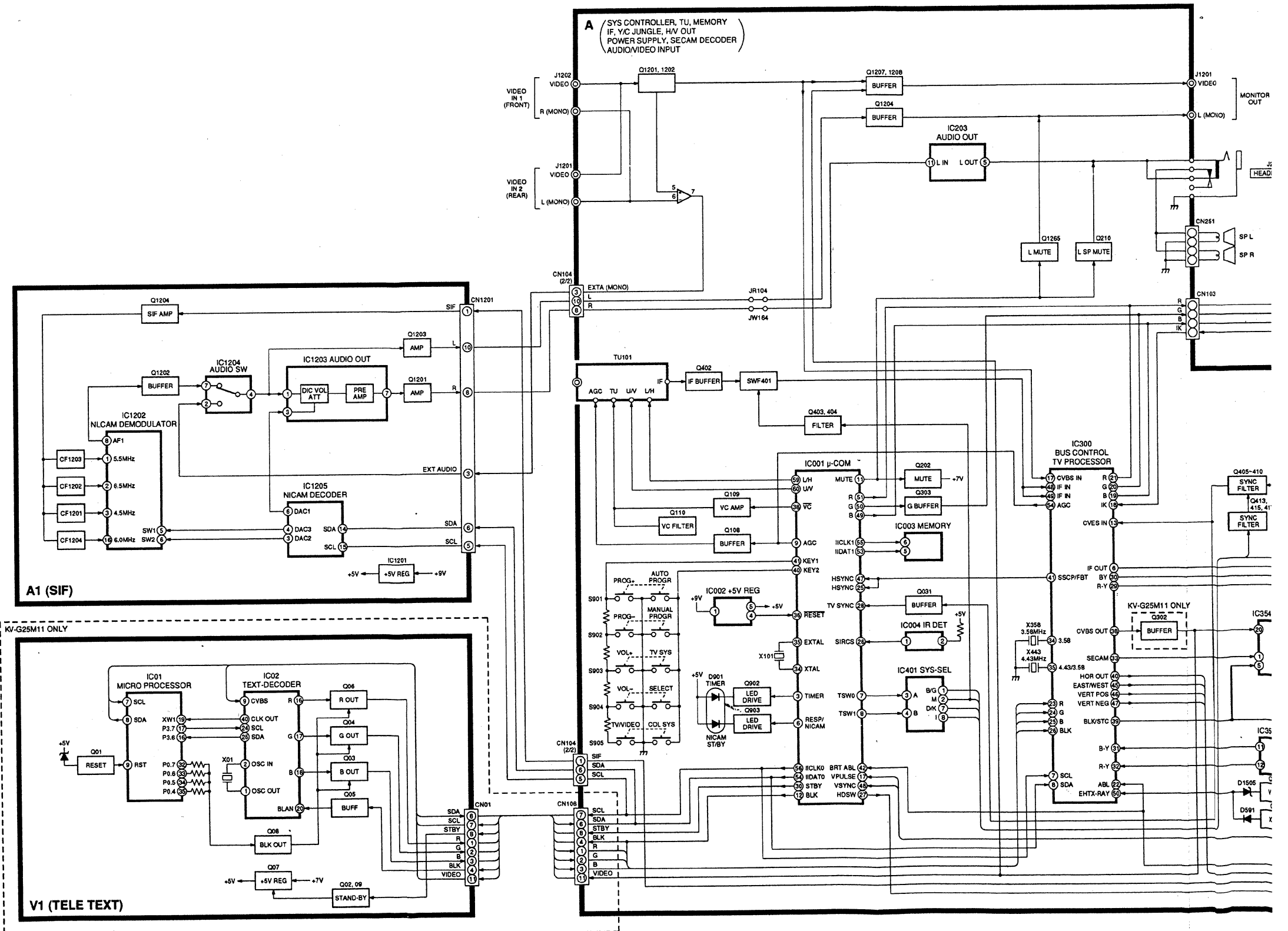
Item	–	VM	–	TV System		NTSC	SECAM	Chin
KV-T29SF8	0	1	0	0	1	1	0	1
KV-T29SF81	0	1	0	0	1	1	0	1
KV-T29SZ8	0	1	0	0	1	1	0	1

KV-G25M1/G25M11  
RM-870

KV-G25M1/G25M11  
RM-870

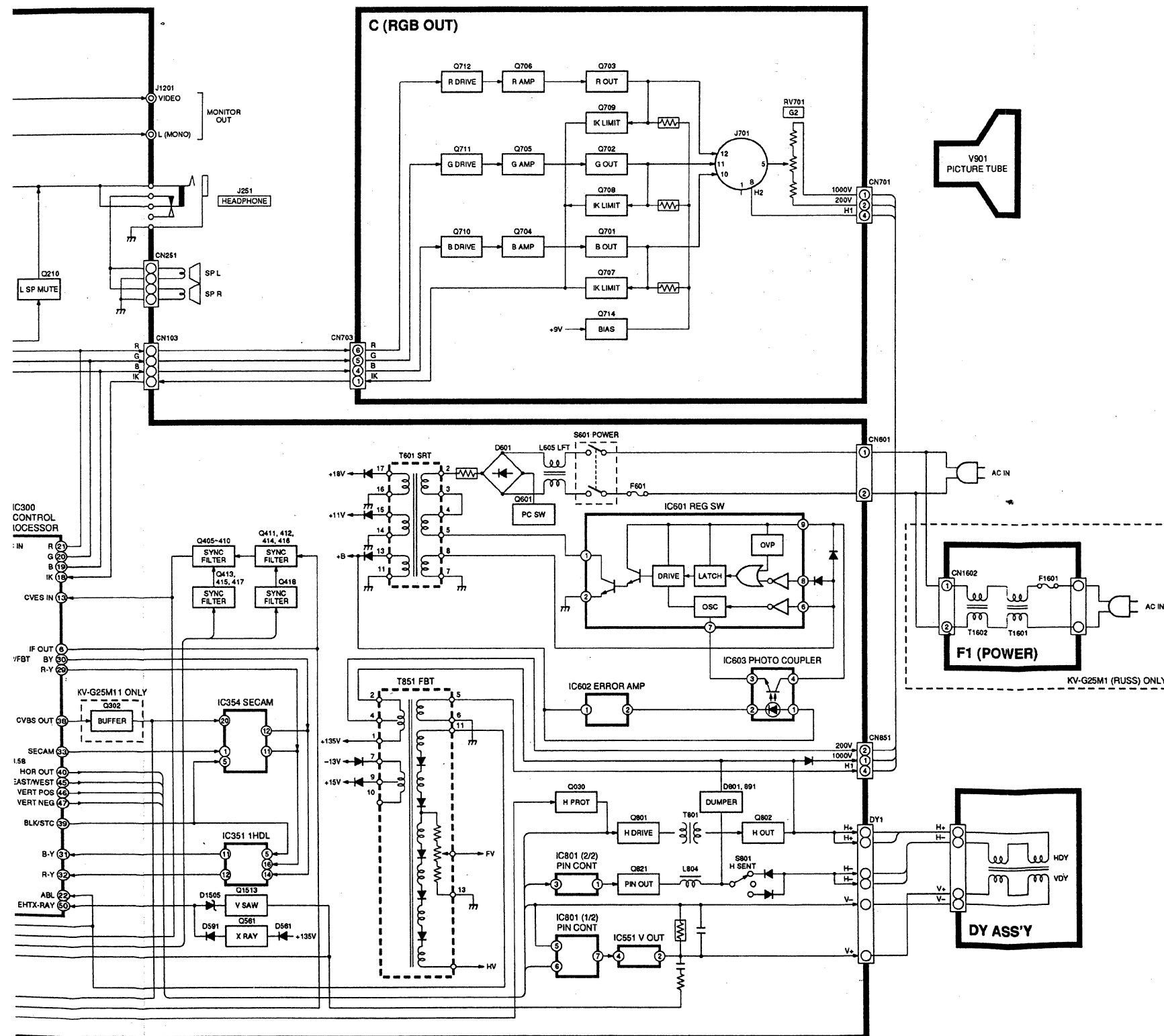
## SECTION 5 DIAGRAMS

### 5-1. BLOCK DIAGRAMS



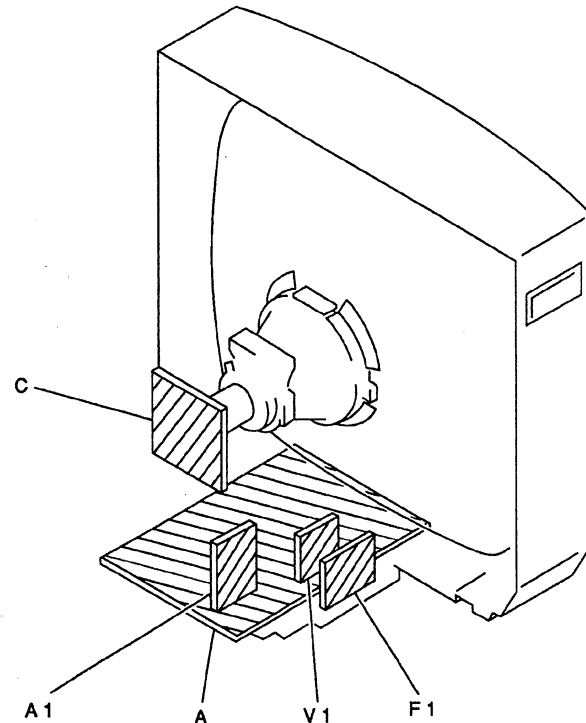
KV-G25M1/G25M11  
RM-870

KV-G25M1/G25M11  
RM-870





## 5-2. CIRCUIT BOARDS LOCATION



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  
 $k\Omega = 100\Omega$ ,  $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.  
no mark : PAL  
( ) : SECAM  
< > : NTSC 4.43
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Can not be measured.
- Circled numbers are waveform reference.
- : B + bus.
- - - : B - bus.
- : signal path.

## Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark are critical for safety. Replace only with part number specified.

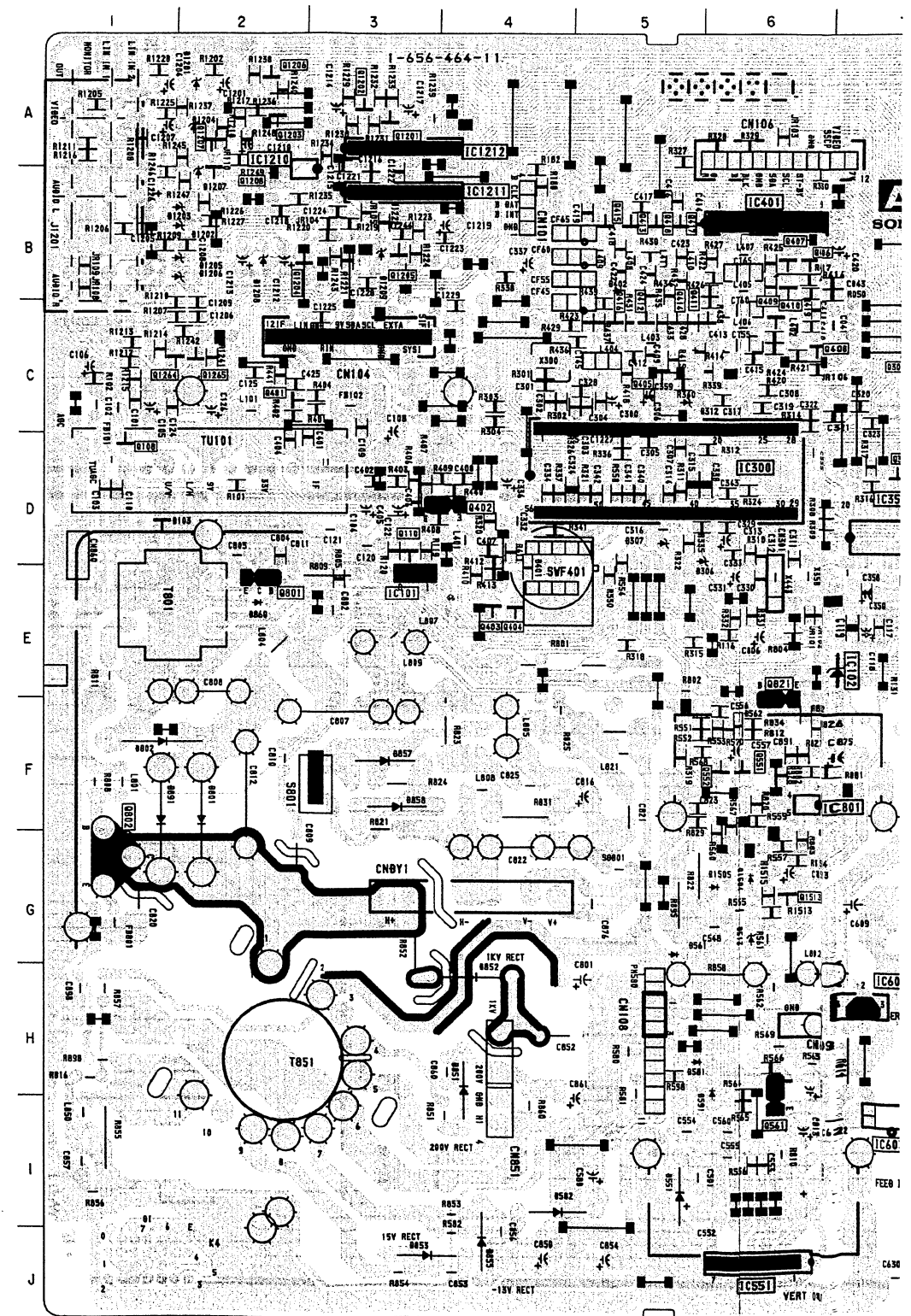
## PRINTED WIRING BOARD

**A** [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE  
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

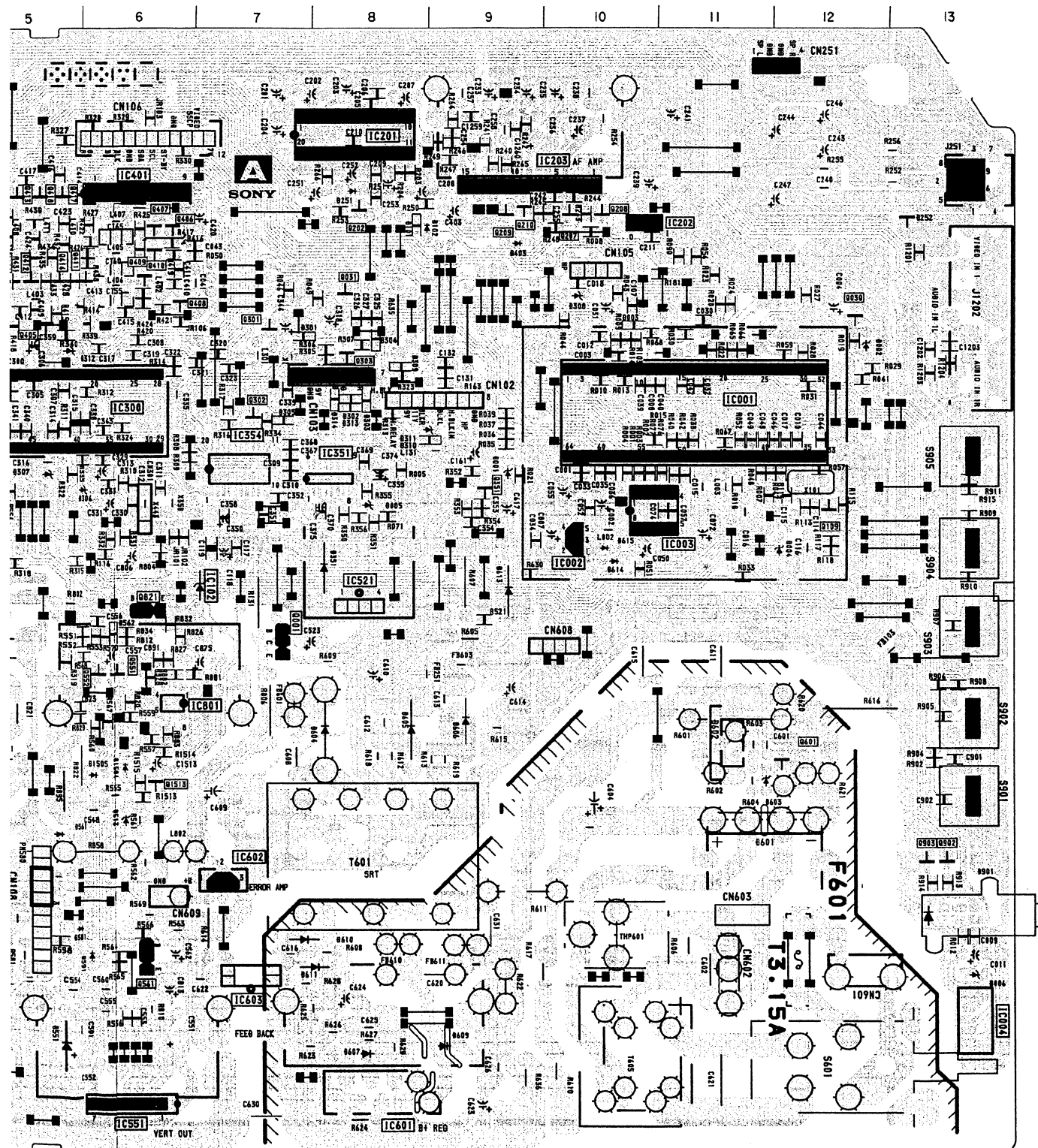
## A BOARD

IC		Q1208 B-2	Q1265 C-2	Q1513 G-6
		DIODE		
IC001	D-11	D001	D-9	
IC002	E-10	D002	C-12	
IC003	E-11	D003	C-10	
IC004	I-13	D004	E-12	
IC102	E-7	D005	E-8	
IC203	B-10	D101	B-8	
IC300	D-6	D102	B-9	
IC351	D-8	D103	D-1	
IC354	D-7	D251	B-8	
IC401	B-6	D252	B-13	
IC521	E-8	D301	C-7	
IC551	J-6	D302	D-8	
IC601	J-8	D303	D-8	
IC602	H-7	D304	C-8	
IC603	I-7	D305	D-7	
IC801	F-6	D306	D-6	
IC1210	A-2	D307	D-5	
TRANSISTOR		D308	C-10	
Q030	C-12	D310	D-8	
Q031	C-8	D311	D-8	
Q108	D-1	D312	C-5	
Q109	E-12	D313	D-8	
Q110	D-3	D314	D-8	
Q202	B-8	D351	E-8	
Q207	B-10	D401	D-4	
Q208	B-10	D402	B-5	
Q210	B-9	D403	B-9	
Q301	C-7	D513	G-6	
Q302	D-7	D551	I-5	
Q303	C-8	D561	G-5	
Q402	D-4	D591	H-6	
Q403	E-4	D601	G-11	
Q404	E-4	D602	G-11	
Q405	C-5	D603	G-11	
Q406	B-6	D604	G-8	
Q407	B-6	D605	G-8	
Q408	C-6	D606	F-9	
Q409	C-6	D607	I-8	
Q410	B-6	D609	I-9	
Q411	C-6	D610	H-7	
Q412	C-5	D611	I-8	
Q413	B-5	D801	F-2	
Q414	C-5	D802	F-1	
Q415	B-5	D851	H-4	
Q416	C-5	D852	H-4	
Q417	B-5	D853	J-3	
Q418	B-5	D855	J-4	
Q561	I-6	D857	F-3	
Q601	G-12	D858	F-3	
Q801	E-2	D860	E-2	
Q802	G-1	D891	F-1	
Q821	E-6	D901	H-13	
Q902	H-13	D1201	A-2	
Q903	H-13	D1202	B-2	
Q1201	A-3	D1207	B-2	
Q1202	A-3	D1208	B-2	
Q1203	A-2	D1504	G-6	
Q1204	B-2	D1505	G-6	
Q1207	A-2			

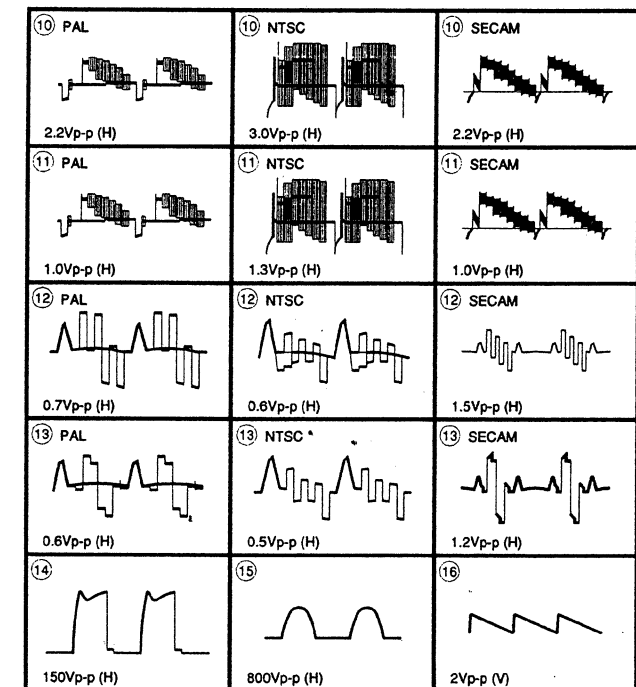
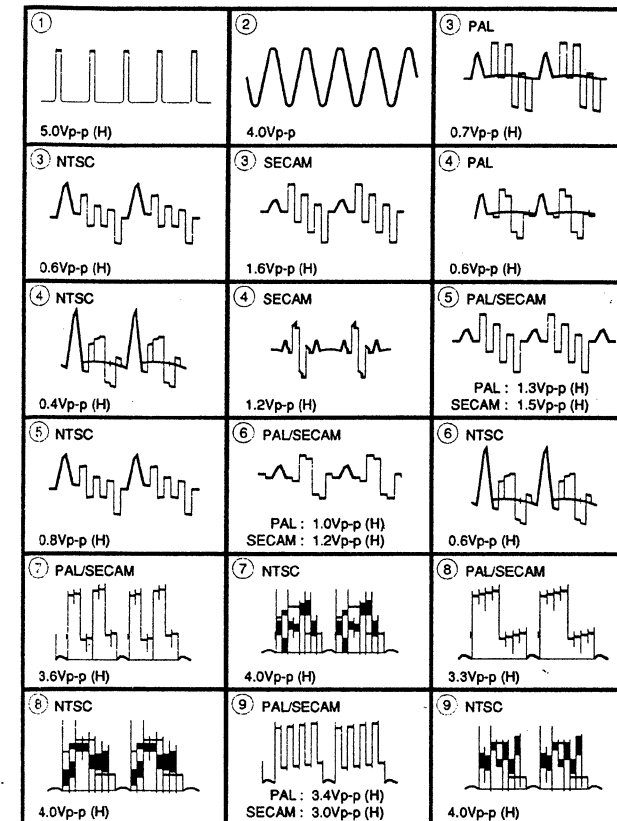
## - A Board -



DEO INPUT ]



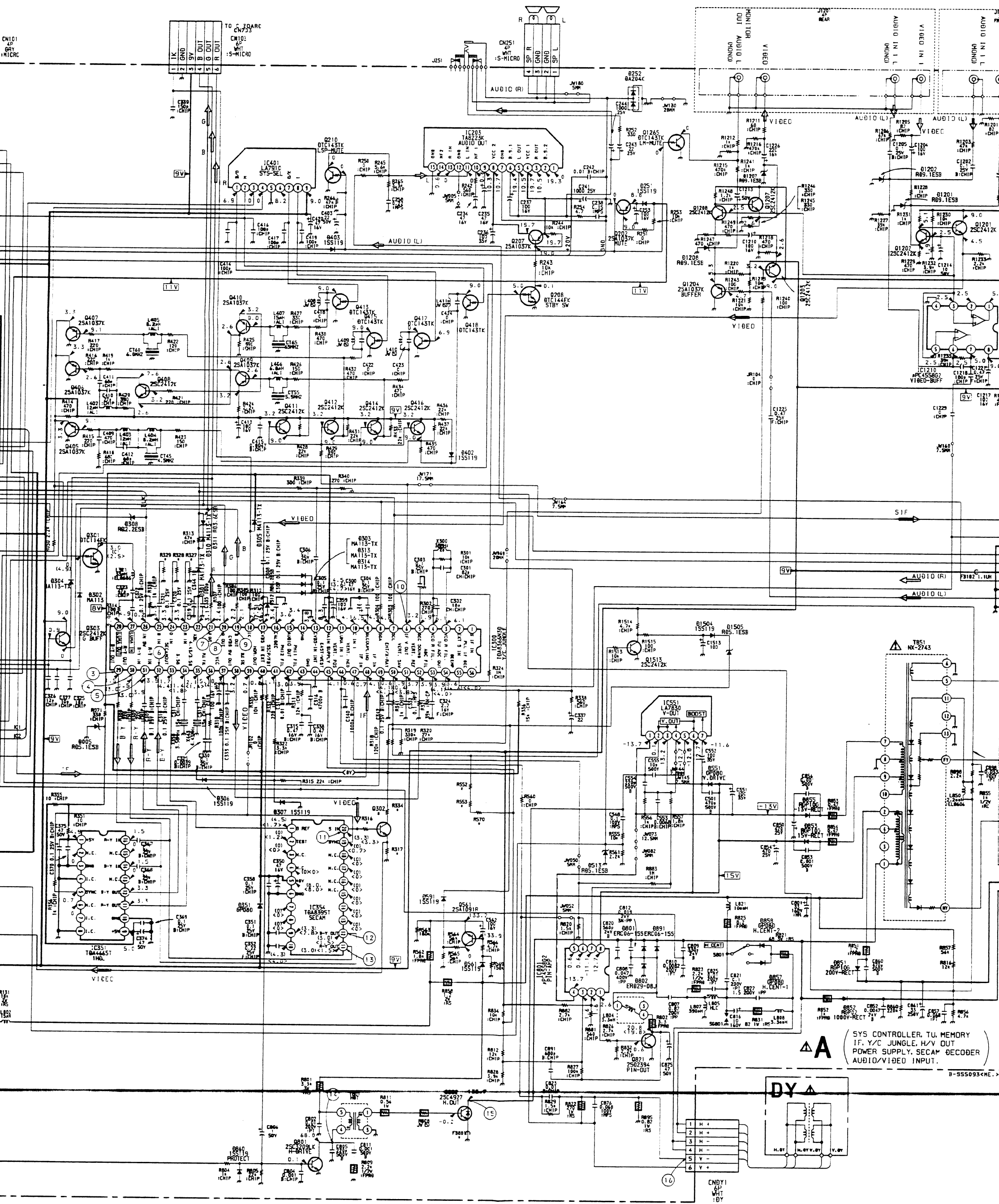
## A BOARD WAVEFORMS



**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





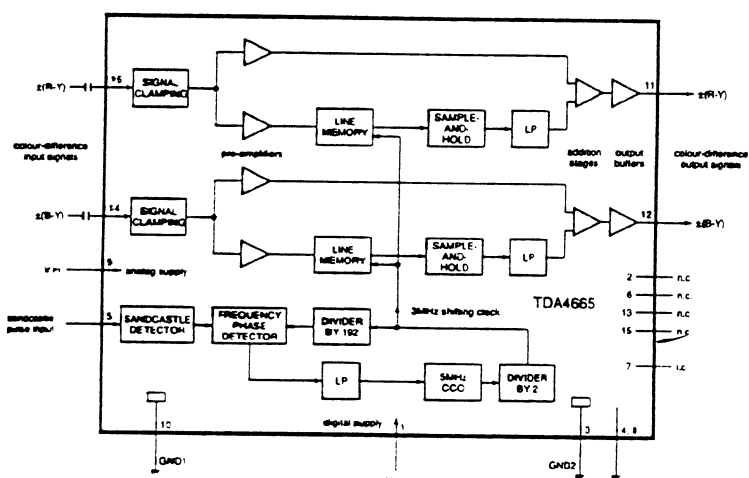




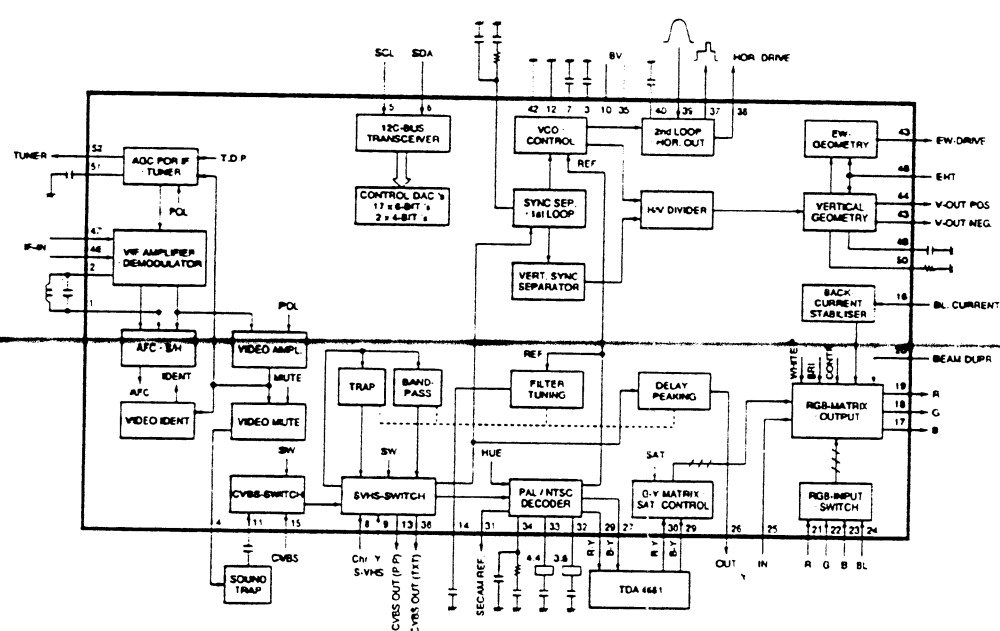
## A BOARD \* MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W : RS

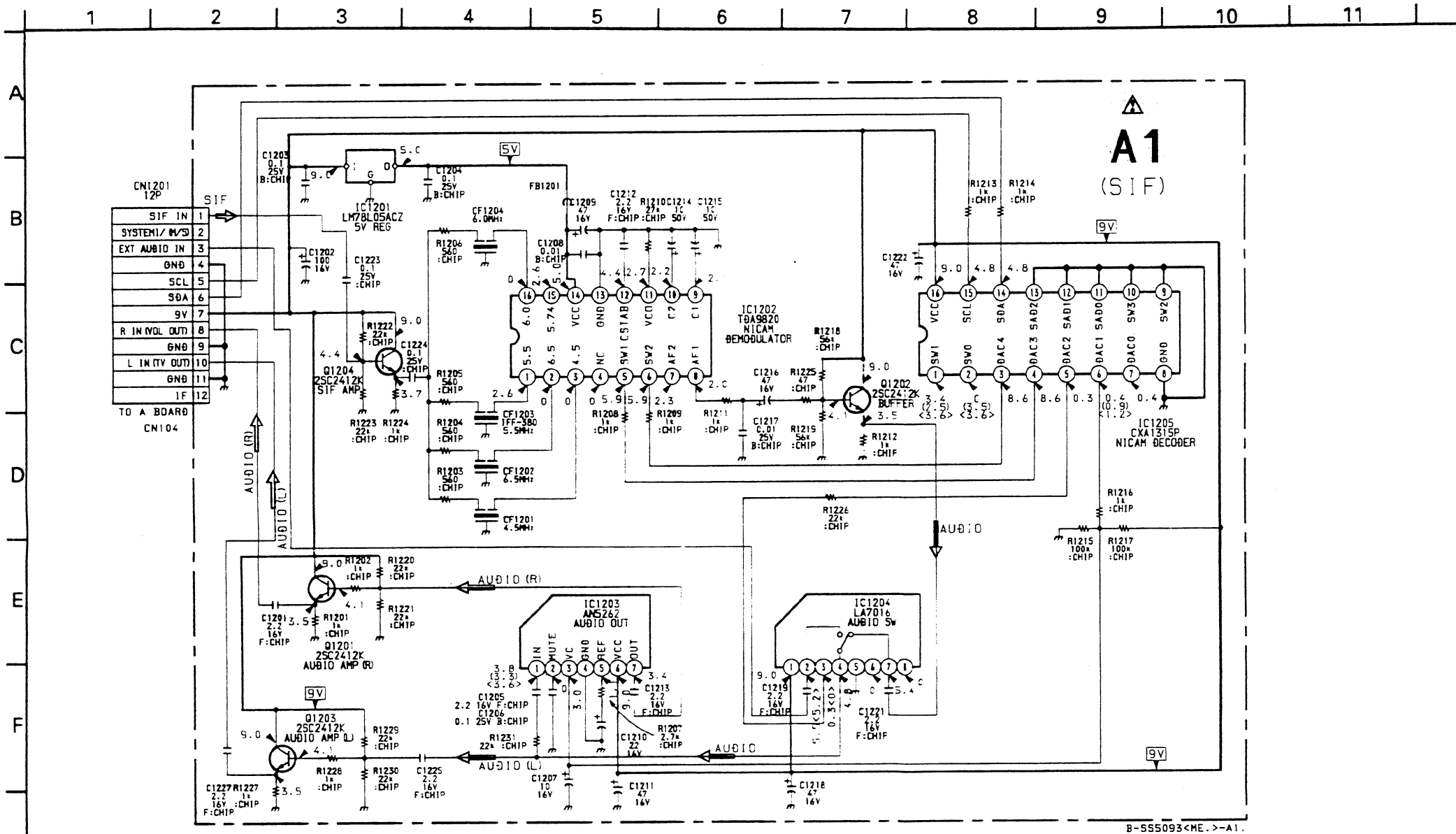
## A BOARD IC351 TDA4665T



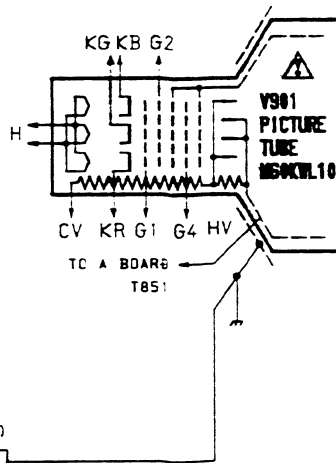
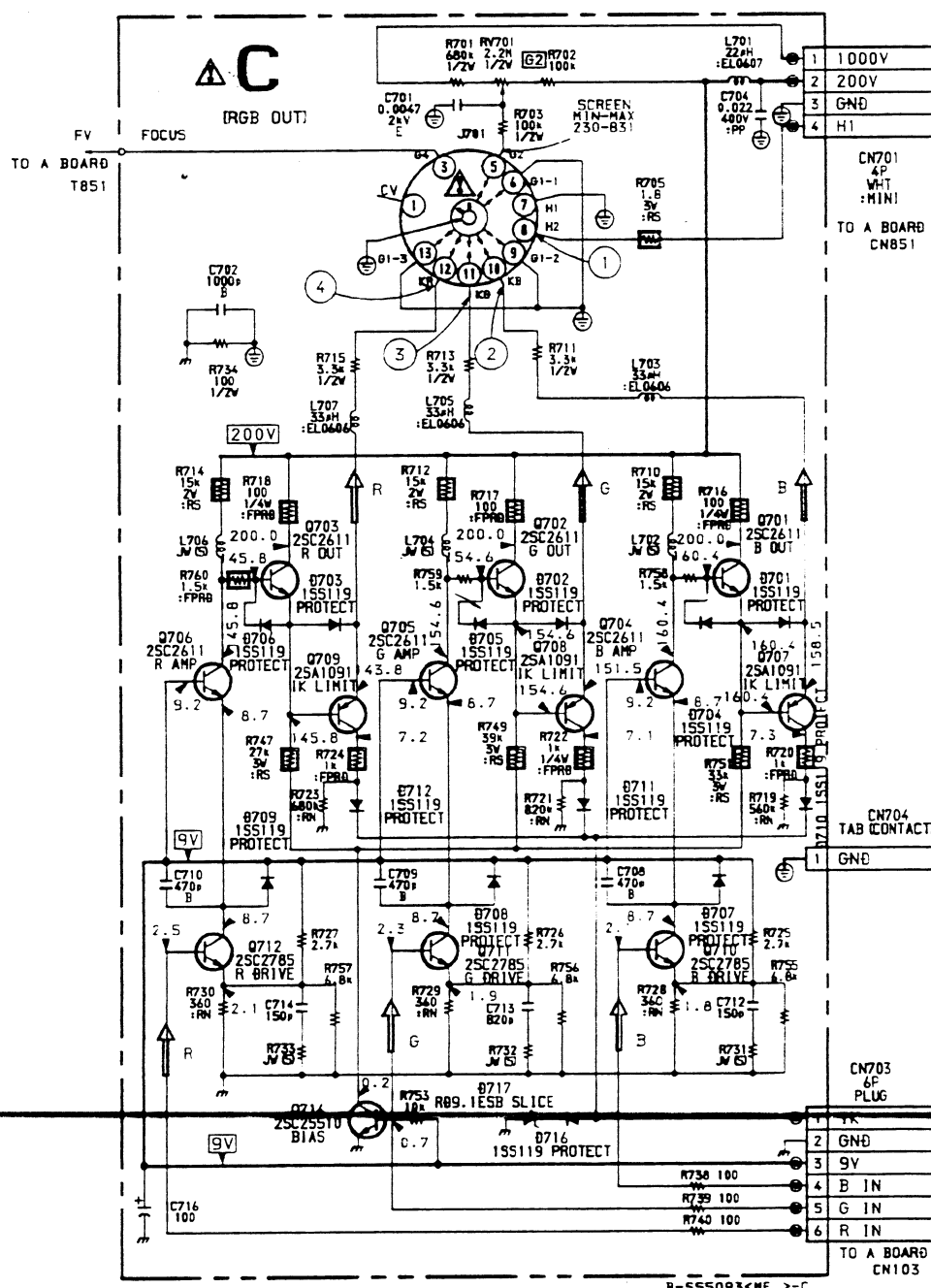
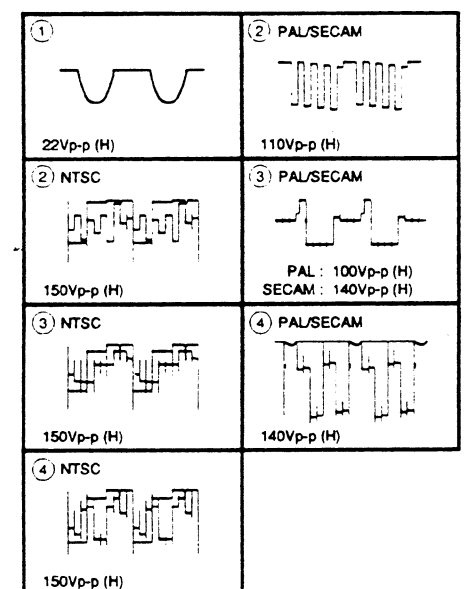
## A BOARD IC300 TDA8366N3D



# (2) Schematic Diagrams of A1, C, F1 and V1 Boards



## C BOARD WAVEFORMS



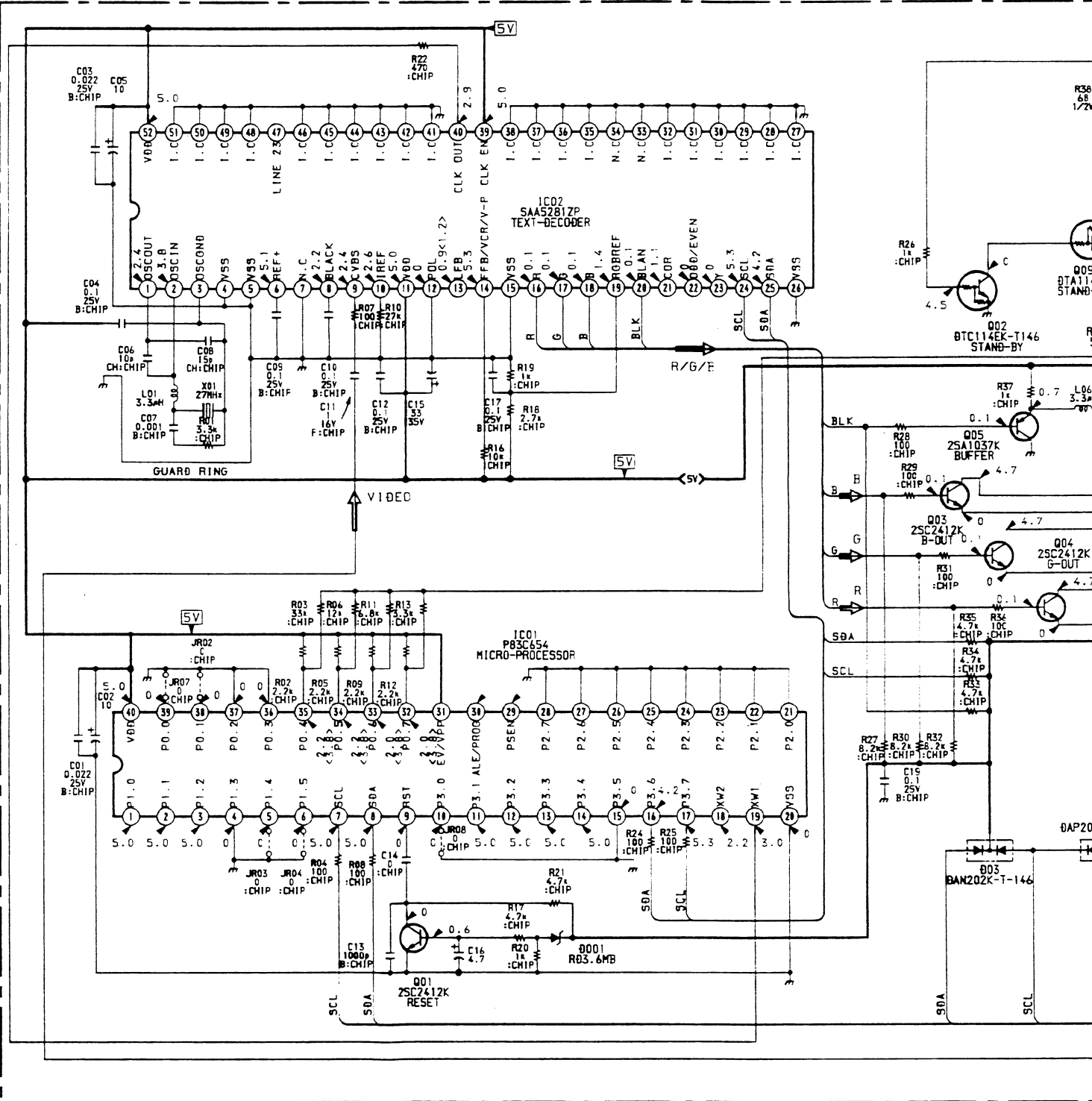
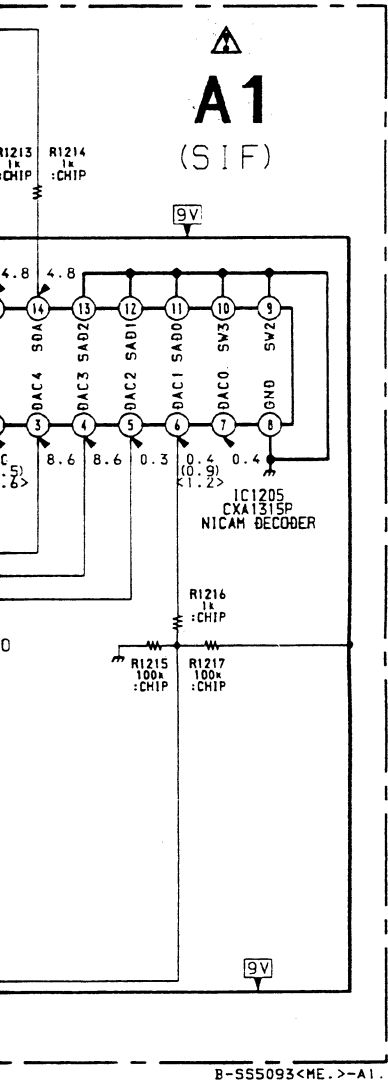
Schematic diagram

Schematic diagrams

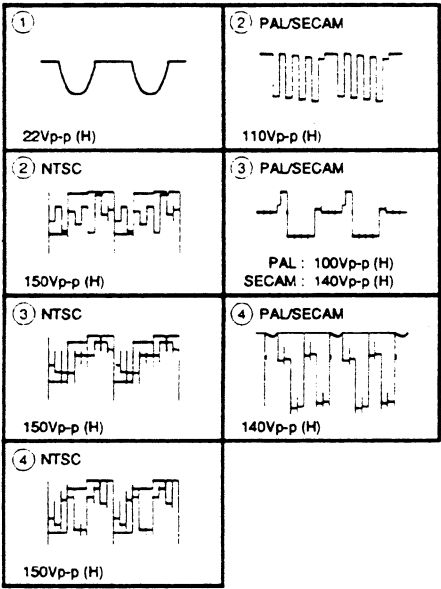
← A board

A1, C, F1, V1 boards →

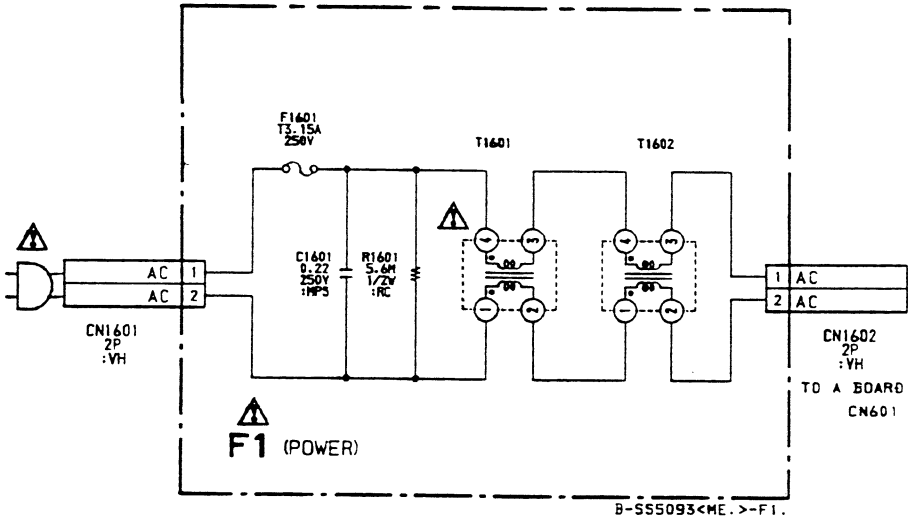
(KV-G25M11 only)



C BOARD WAVEFORMS



(KV-G25M1 (RUSS) only)



A1 BOARD IC1203 AN5262

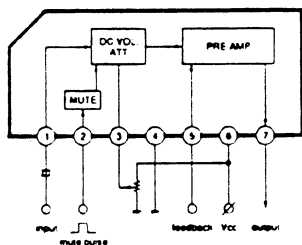
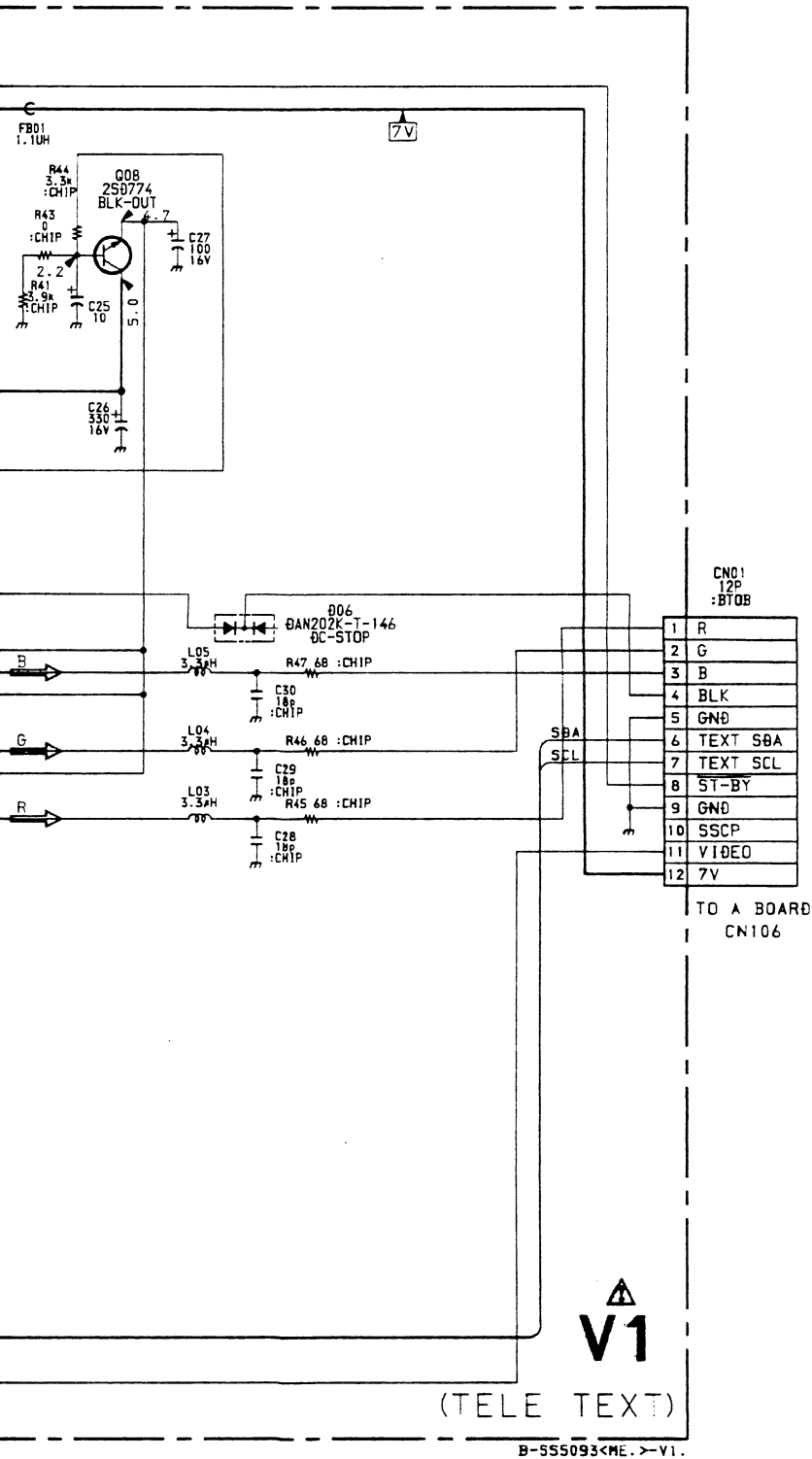
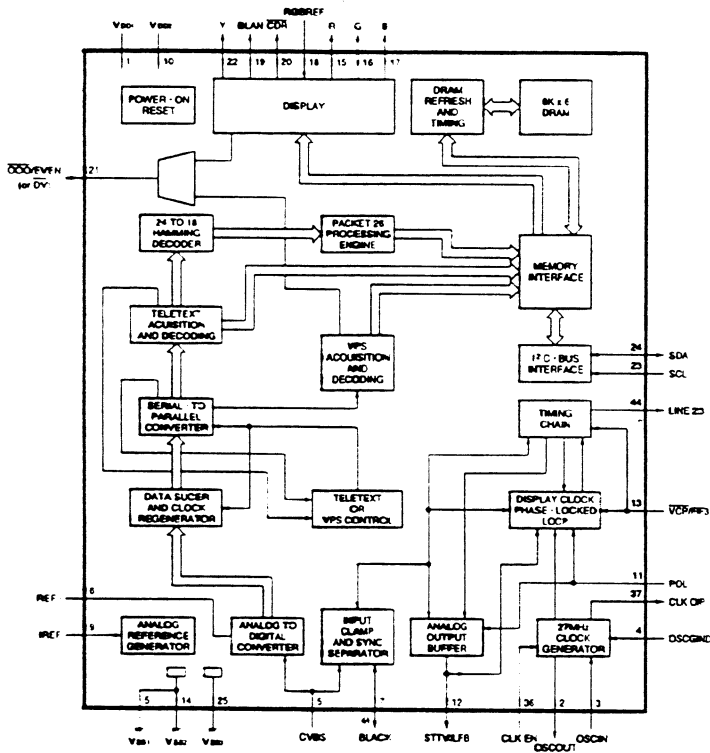




Diagram of the Sony T3.15A vacuum tube pinout. The diagram shows the internal structure of the tube with various pins labeled: CN1603, C1603, C1602, T1601, R1601, C1601, and CN1601. A large 'F1' label is in the top left corner. The diagram is oriented vertically, with the base of the tube at the top.



V1 BOARD IC02 SAA5281ZP

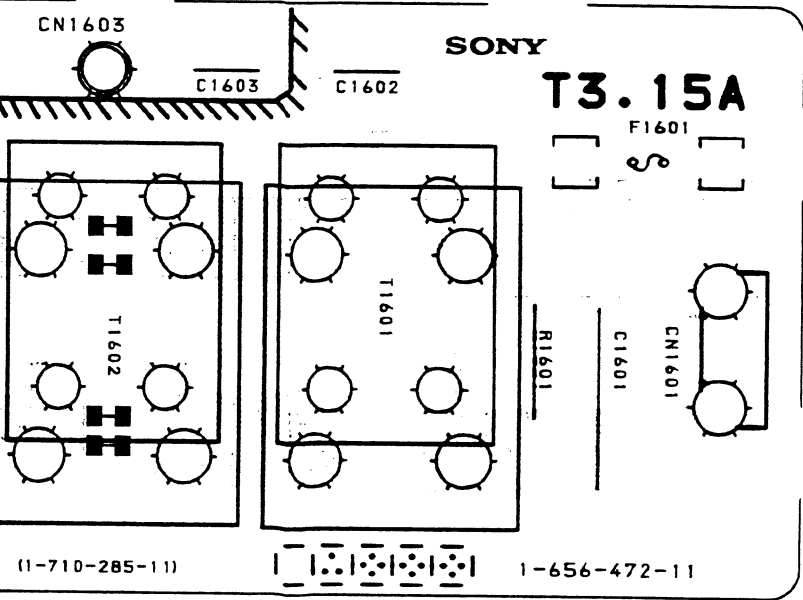


WIRING BOARD

F1

[POWER]

(KV-G25M1 (RUSS) only)



KV-G25M1/G25M11  
RM-870

KV-G25M1/G25M11  
RM-870

PRINTED WIRING BOARDS

A1

[SIF]

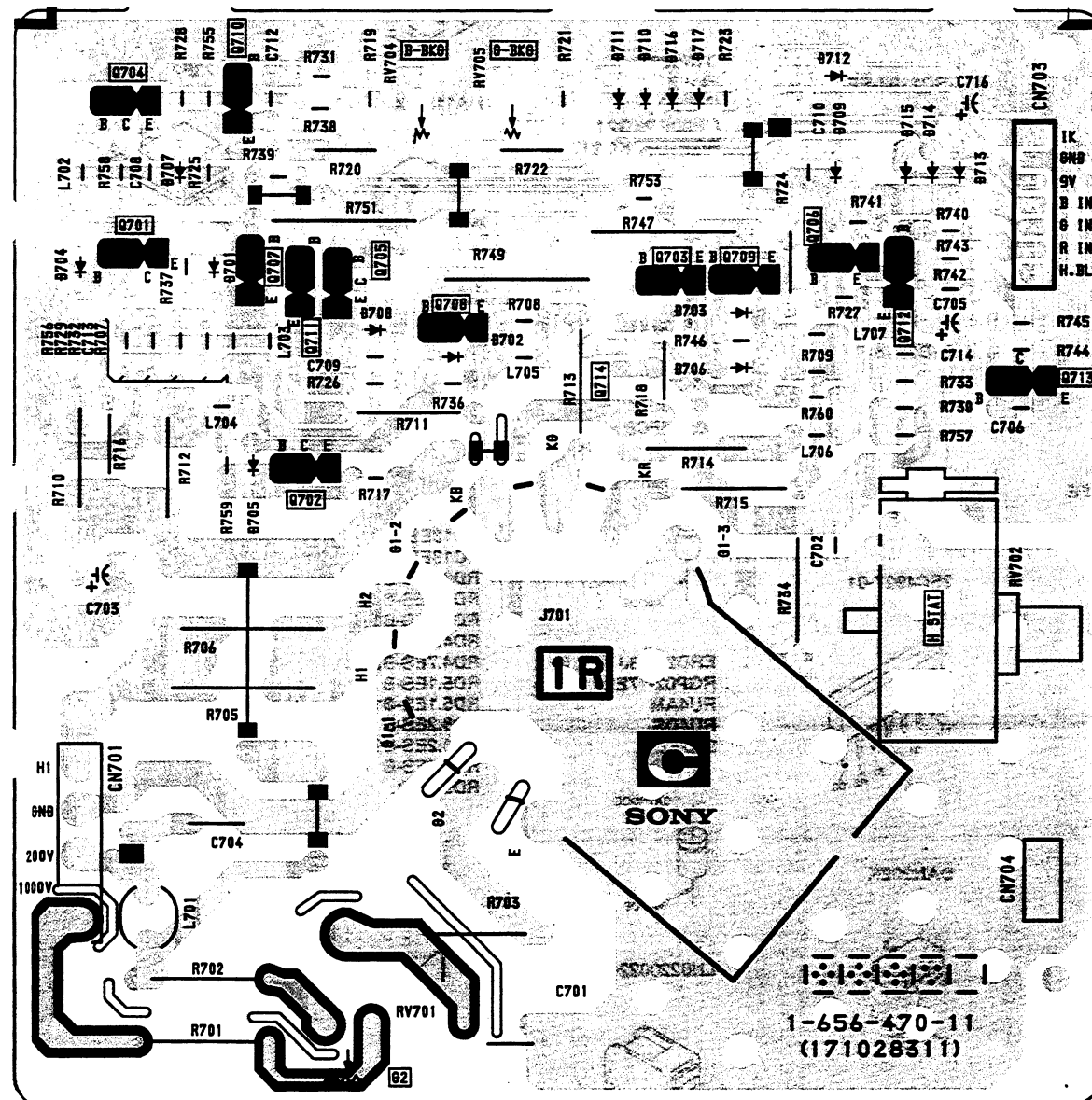
C

[RGB OUT]

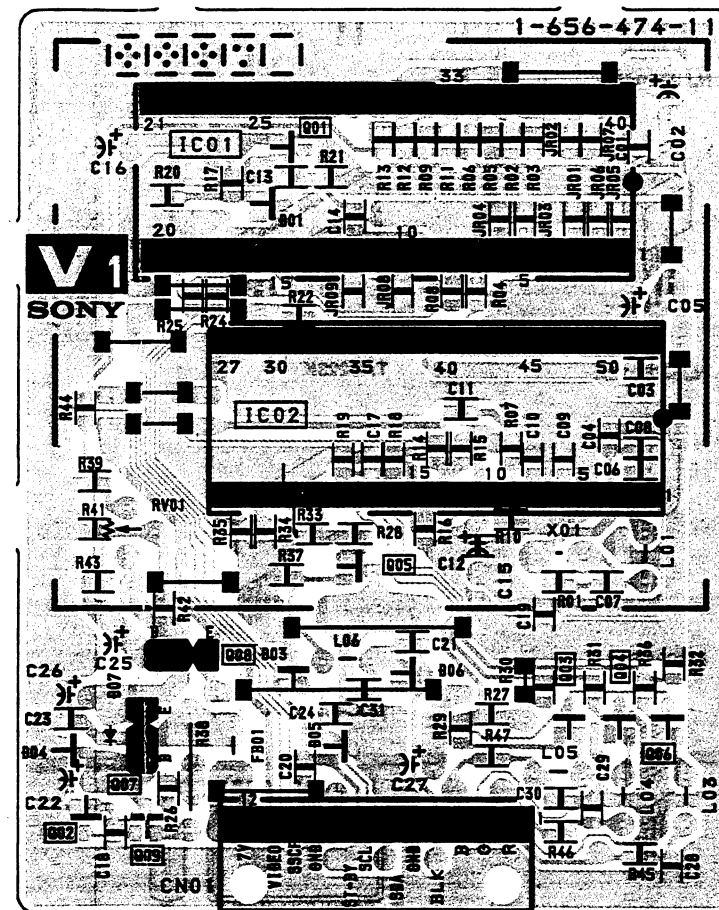
V1

[TELE TEXT]

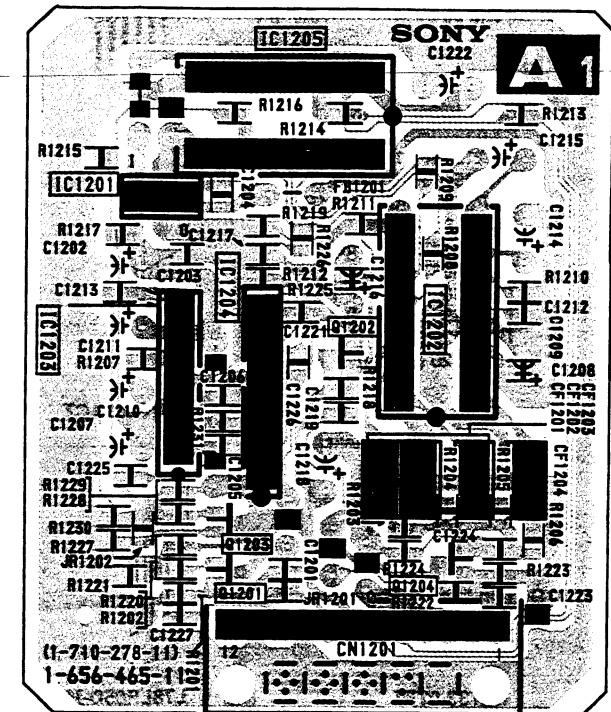
- C Board -



- V1 Board - (KV-G25M11 only)

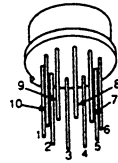


- A1 Board -

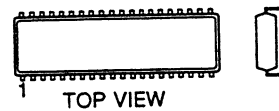


5-4. SEMICONDUCTORS

AN5262

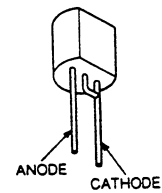


CAT24C04P (8PIN)  
CXA1110BS (30PIN)  
CXA1315P (16PIN)  
CXP85116B-615S (64PIN)  
CXP85224A-010S (64PIN)  
P83C654 (40PIN)  
SAA5281ZP (52PIN)  
TDA4665T (16PIN)  
TDA8366N3D (56PIN)  
TDA8395T (20PIN)  
TDA8424 (20PIN)  
TDA9820 (16PIN)

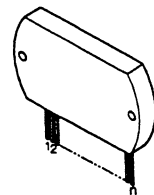


Dual In-line Package  
Pin 6 ~ 98

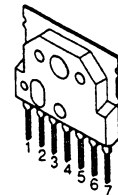
HZT33-02TE  
μPC574J



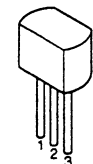
LA7016



LA7830



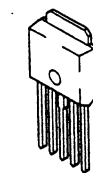
LA7910



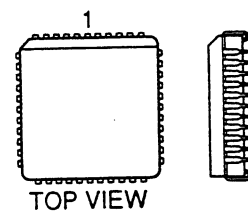
LM78L05ACZ



L78LR05D-MA

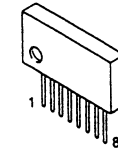


MSP3410 (44PIN)

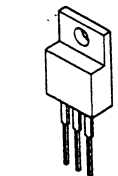


Quad Flat J-leaded Package  
Pin 20 ~ 996

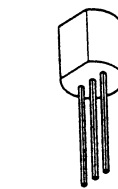
NJM2234L



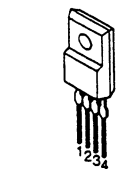
NJM7805FA



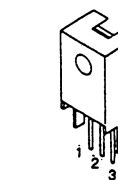
NJM78L12A



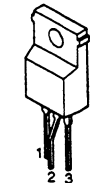
PQ09RE11



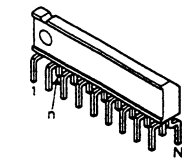
SBX1790-11  
SBX1790-51



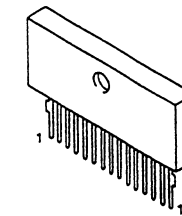
SE-135N



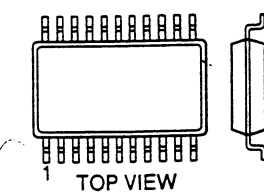
STR-S6708



TA8223K

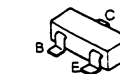


μPC4558G2 (8PIN)



Small Outline L-leaded Package  
Pin 8 ~ 98

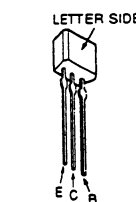
DTA114EK  
DTC114EK  
DTC143TK  
DTC144EK  
2SA1037K-QR  
2SA1162-G  
2SC1623-L5L6  
2SC2412K-QR  
2SC2712-YG



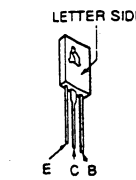
2SA1091  
2SA1091-O  
2SC2551-O



2SC2410SN  
2SC2785-HFE



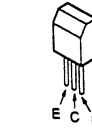
2SC2611



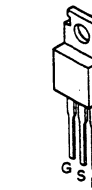
2SC2669-O



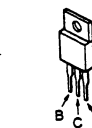
2SC3209LK  
2SD774-34



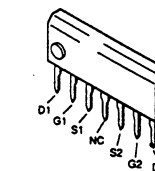
2SD2394-EF



2SD2394-F



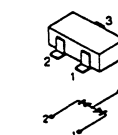
2SC4927-01



DAN202K



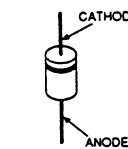
DAP202K



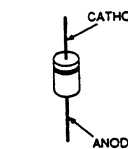
DA204K



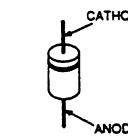
D1NL20  
EL-1Z  
GP08D  
GP08DPKG23  
RGP10GPKG23



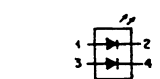
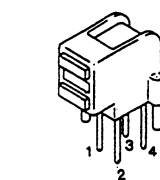
ERC06-15S  
S3L20UF4  
30DF6FC8



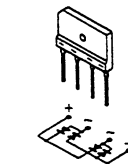
ERD29-08J  
RGP02-17EL  
RU4AM  
RU4DS  
31DF2



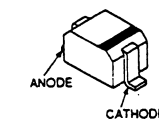
LN0220022G



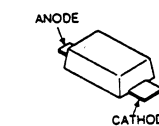
LN4SB60  
RBV-406H



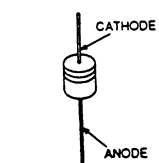
MA113-TX



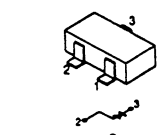
MA77-TX



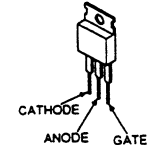
RD13ES-B  
RD13ES-B2  
RD2.2ES-B  
RD3.6ES-B  
RD3.6ES-B1  
RD4.7ES-B  
RD4.7ES-B2  
RD5.1ES-B  
RD5.1ES-B1  
RD8.2ES-B  
RD8.2ES-B2  
RD9.1ES-B  
RD9.1ESL



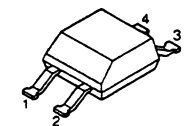
RD3.6M-B  
RD3.6M-B1  
RD5.6M-B  
RD5.6M-B2



5P4M



PC123F2



# SECTION 6 EXPLODED VIEWS

NOTE:

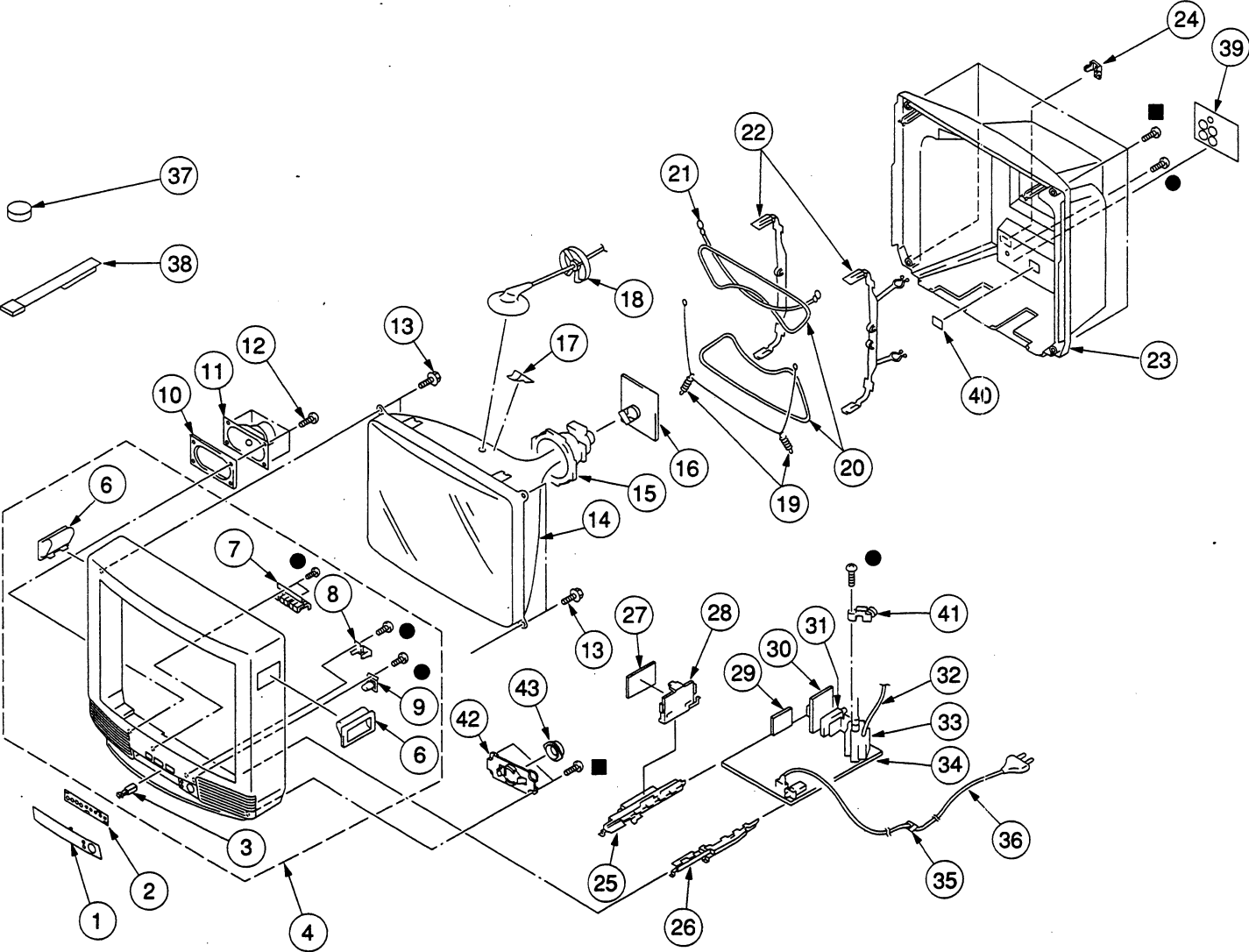
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

## 6-1. CHASSIS

- : BVTP3  $\times$  12 7-685-648-79
- : BVTP4  $\times$  16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-048-702-11	DOOR, CONTROL	
2	4-048-575-11	LABEL, CONTROL	
3	4-627-936-01	LOCK, MINIATURE SIDE	
4	X-4032-787-1	BEZNET ASSY	
6	4-048-691-01	HANDLE	
7	4-048-687-01	BUTTON, MULTI	
8	4-049-123-01	GUIDE, LIGHT	
9	4-048-688-01	BUTTON, POWER	
10	4-037-613-01	CUSHION, SP	
11	1-504-305-11	SPEAKER (5X12CM)	
12	4-043-388-01	SCREW, STEP TAPPING	
13	4-390-505-01	SCREW (7), TAPPING	
14	$\Delta$ 8-733-242-05	PICTURE TUBE (M60K110X)	
15	$\Delta$ 8-451-404-11	DEFLECTION YOK (Y25G1AS)	
16	*A-1331-428-A	C BOARD, COMPLETE	
17	3-704-495-01	SPACER, DY	
18	*3-704-372-11	HOLDER, HV CABLE	
19	4-369-318-61	SPRING, TENSION	
20	$\Delta$ 1-403-619-11	COIL, DEMAGNETIZATION	
21	4-043-827-11	BAND, DEGAUSSING COIL	
22	*4-042-988-01	HOLDER, DGC	
23	4-048-703-01	COVER, REAR	
24	4-049-130-01	CLAMP, CODE	
25	*4-048-690-01	RAIL (L), GUIDE	
26	*4-048-689-01	RAIL (R), GUIDE	
27	*A-1241-190-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS))	
28	*4-049-158-01	BRACKET, F1 PC BOARD (KV-G25M1(RUSS))	
29	*A-1347-103-A	V1 BOARD, COMPLETE (KV-G25M11)	
30	*A-1292-869-A	A1 BOARD, COMPLETE	
31	$\Delta$ 8-598-323-00	TUNER, RT AG401	
32	1-900-212-02	LEAD ASSY, FOCUS	
33	$\Delta$ 1-453-190-11	TRANSFORMER, FLYBACK (NY-2743/M3B)	
34	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))	
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))	
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))	
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11)	
35	$\Delta$ 4-389-773-11	WELDER, AC CURD	
36	$\Delta$ 1-574-062-22	CUR, POWER WITH CONNECTOR (2SA250V, KV-G25M1(ME))	
	$\Delta$ 1-574-062-22	CUR, POWER WITH CONNECTOR (2SA250V, KV-G25M1(HK))	
	$\Delta$ 1-574-062-22	CUR, POWER WITH CONNECTOR (2SA250V, KV-G25M1(RUSS))	
	$\Delta$ 1-574-062-22	CUR, POWER WITH CONNECTOR (2SA250V, KV-G25M11)	
37	1-452-032-00	MAGNET, DISC	
38	X-4387-214-1	PERMALOY ASSY, CORRECTION	
39	4-049-121-01	LABEL, TERMINAL	
40	4-049-416-01	SHEET, BLIND	
41	4-039-460-01	HOLDER, FBT	
42	*4-049-124-01	BRACKET, SPEAKER	
43	1-544-453-21	SPEAKER (2CM)	

SECTION 7  
ELECTRICAL PARTS LIST

A1

A1

A

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " \* " are not stocked since service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- RESISTORS
- All resistors are in ohms
  - F : nonflammable
- CAPACITORS
- MF :  $\mu$ F, PF :  $\mu$ F
- COILS
- MMH :  $\mu$ H, UH :  $\mu$ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1292-869-A A1 BOARD, COMPLETE *****				<FERRITE BEAD>			
				FB1201	1-412-911-11	INDUCTOR, FERRITE BEAD	
<CAPACITOR>				<IC>			
C1201	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1201	8-759-991-41	IC LM78L05ACZ	
C1202	1-104-665-11	ELECT 100MF	20% 16V	IC1202	8-759-070-71	IC TDA9820	
C1203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1203	8-759-248-80	IC AN5262-(NT)	
C1204	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1204	8-759-800-81	IC LA7016	
C1205	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1205	8-752-057-18	IC CXA1315P	
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<TRANSISTOR>			
C1207	1-126-157-11	ELECT 10MF	20% 16V	Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1208	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1209	1-104-664-11	ELECT 47MF	20% 16V	Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1210	1-124-234-00	ELECT 22MF	20% 16V	Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1211	1-104-664-11	ELECT 47MF	20% 16V	<RESISTOR>			
C1212	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1201	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1213	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1202	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1214	1-124-907-11	ELECT 10MF	20% 50V	R1203	1-216-043-91	METAL GLAZE 560 5% 1/10W	
C1215	1-124-907-11	ELECT 10MF	20% 50V	R1204	1-216-043-91	METAL GLAZE 560 5% 1/10W	
C1216	1-104-664-11	ELECT 47MF	20% 16V	R1205	1-216-043-91	METAL GLAZE 560 5% 1/10W	
C1217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R1206	1-216-043-91	METAL GLAZE 560 5% 1/10W	
C1218	1-104-664-11	ELECT 47MF	20% 16V	R1207	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
C1219	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1208	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1221	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1209	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1222	1-104-664-11	ELECT 47MF	20% 16V	R1210	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
C1223	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1211	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
C1224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1212	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1225	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1213	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1227	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1214	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
<FILTER>				R1215	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
CF1201	1-527-943-00	FILTER, CERAMIC		R1216	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
CF1202	1-567-101-11	FILTER, CERAMIC		R1217	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
CF1203	1-567-099-00	FILTER, CERAMIC		R1218	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
CF1204	1-567-100-00	FILTER, CERAMIC		R1219	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
<CONNECTOR>				R1220	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
CN1201	* 1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		R1221	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
				R1222	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
				R1223	1-216-081-00	METAL GLAZE 22K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1224	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C101	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R1225	1-216-017-00	METAL GLAZE 47 5% 1/10W		C102	1-136-169-00	FILM 0.22MF 5% 50V	
R1226	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C105	1-104-665-11	ELECT 100MF 20% 16V	
R1227	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C106	1-124-907-11	ELECT 10MF 20% 50V	
R1228	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C107	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
R1229	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C108	1-126-942-61	ELECT 1000MF 20% 16V	
R1230	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C109	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
R1231	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C114	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
*****				C115	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
* A-1297-513-A A BOARD, COMPLETE (KV-G25M1(ME))				C116	1-136-165-00	FILM 0.1MF 5% 50V	
* A-1297-552-A A BOARD, COMPLETE (KV-G25M1(HK))				C117	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
* A-1297-554-A A BOARD, COMPLETE (KV-G25M1(RUSS))				C118	1-124-916-11	ELECT 22MF 20% 50V	
* A-1297-566-A A BOARD, COMPLETE (KV-G25M11)				C119	1-163-059-00	CERAMIC CHIP 0.01MF 50V	
*****				C120	1-130-493-00	MYLAR 0.068MF 5% 50V	
1-533-223-11 CLIP, FUSE				C121	1-130-493-00	MYLAR 0.068MF 5% 50V	
* 1-580-798-11 CONNECTOR PIN (DY) 6P				C122	1-104-665-11	ELECT 100MF 20% 16V	
* 4-049-131-01 CASE (A), SHIELD				C124	1-163-029-11	CERAMIC CHIP 0.0047MF 50V	
4-382-854-11 SCREW (M3X10), P. SW (+)				C125	1-163-029-11	CERAMIC CHIP 0.0047MF 50V	
<CAPACITOR>				C234	1-104-664-11	ELECT 47MF 20% 16V	
C001	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V		C235	1-104-664-11	ELECT 47MF 20% 16V	
C002	1-124-916-11	ELECT 22MF 20% 50V		C236	1-126-968-11	ELECT 100MF 20% 35V	
C003	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C237	1-104-665-11	ELECT 100MF 20% 16V	
C004	1-124-925-11	ELECT 2.2MF 20% 50V		C238	1-136-167-00	FILM 0.15MF 5% 50V	
C007	1-124-902-00	ELECT 0.47MF 20% 50V		C241	1-124-557-11	ELECT 1000MF 20% 25V	
C008	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C242	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C009	1-163-133-00	CERAMIC CHIP 470PF 5% 50V		C243	1-126-233-11	ELECT 22MF 20% 25V	
C010	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		C244	1-124-557-11	ELECT 1000MF 20% 25V	
C011	1-104-664-11	ELECT 47MF 20% 16V		C253	1-104-665-11	ELECT 100MF 20% 16V	
C012	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C258	1-136-169-00	FILM 0.22MF 5% 50V	
C015	1-101-884-00	CERAMIC 56PF 5% 50V		C300	1-104-664-11	ELECT 47MF 20% 16V	
C016	1-101-884-00	CERAMIC 56PF 5% 50V		C301	1-163-249-11	CERAMIC CHIP 82PF 5% 50V	
C017	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C302	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C018	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C303	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C030	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		C304	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C031	1-124-903-11	ELECT 1MF 20% 50V		C305	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C034	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C306	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C035	1-163-009-11	CERAMIC CHIP 0.001M 10 50V		C307	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C036	1-163-009-11	CERAMIC CHIP 0.001M 10% 50V		C308	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C039	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C309	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C040	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C310	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C041	1-130-491-00	MYLAR 0.047MF 5 50V		C311	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C042	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C312	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C043	1-163-001-11	CERAMIC CHIP 220PF 10% 50V		C313	1-104-665-11	ELECT 100MF 20% 16V	
C044	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C314	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C046	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C315	1-165-320-11	CERAMIC CHIP 0.47MF 10% 16V	
C048	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C316	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C049	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C319	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C050	1-124-903-11	ELECT 1MF 20% 50V		C320	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C052	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C321	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C055	1-126-941-11	ELECT 470MF 20% 16V		C322	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C057	1-163-243-11	CERAMIC CHIP 47PF 5% 50V		C323	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C072	1-126-941-11	ELECT 470MF 20% 16V		C324	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C074	1-163-001-11	CERAMIC CHIP 220PF 10% 50V		C325	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	

**KV-G25M1/G25M11**  
RM-870

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The components identified by shading  
and mark **△** are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1225	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D591	8-719-911-19	DIODE 1SS119-25	
C1226	1-124-120-11	ELECT 220MF 20%	16V	D601	8-719-052-84	DIODE RBV-406H-02	
C1229	1-216-295-00	CONDUCTOR, CHIP (2012)		D602	8-719-108-18	THYRISTOR 5P4M	
				D603	8-719-112-87	DIODE RD13EST1B	
C1513	1-124-122-11	ELECT 100MF 20%	50V	D604	8-719-110-36	DIODE RU4DS	
		<CONNECTOR>		D605	8-719-052-52	DIODE 31DF2-FD5	
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		D606	8-719-052-52	DIODE 31DF2-FD5	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P		D607	8-719-510-26	DIODE DINL20	
CN104	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		D609	8-719-510-26	DIODE DINL20	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-G25M11)		D610	8-719-510-26	DIODE DINL20	
CN251	*1-564-507-11	PLUG, CONNECTOR 4P		D611	8-719-510-26	DIODE DINL20	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)		D801	8-719-945-80	DIODE ERC06-15S	
CN602	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D802	8-719-900-26	DIODE ERD29-08J	
CN603	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D851	8-719-302-43	DIODE EL1Z	
CN851	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		D852	8-719-028-72	DIODE RGP02-17EL-6433	
		<TRIMMER>		D853	8-719-302-43	DIODE EL1Z	
CT45	1-579-690-21	TRAP, CERAMIC		D855	8-719-302-43	DIODE EL1Z	
CT55	1-404-801-11	TRAP, CERAMIC		D857	8-719-908-03	DIODE GP08D	
CT60	1-409-429-11	TRAP, CERAMIC		D858	8-719-908-03	DIODE GP08D	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)		D860	8-719-911-19	DIODE 1SS119-25	
		<DIODE>		D891	8-719-945-80	DIODE ERC06-15S	
D001	8-719-109-81	DIODE RD4.7ESB2		D901	8-719-054-60	DIODE LN0220022G	
D002	8-719-911-19	DIODE 1SS119-25		D1201	8-719-121-24	DIODE RD9.1ESL	
D003	8-719-041-97	DIODE MA113-(TX)		D1202	8-719-121-24	DIODE RD9.1ESL	
D004	8-719-109-84	DIODE RD5.1ESB1		D1207	8-719-121-24	DIODE RD9.1ESL	
D005	8-719-109-84	DIODE RD5.1ESB1		D1208	8-719-121-24	DIODE RD9.1ESL	
				D1504	8-719-911-19	DIODE 1SS119-25	
D101	8-719-041-97	DIODE MA113-(TX)		D1505	8-719-109-84	DIODE RD5.1ESB1	
D102	8-719-109-81	DIODE RD4.7ESB2				<FUSE>	
D103	8-719-914-42	DIODE DA204K		F601	△ 1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-G25M1 (ME) / (HK), KV-G25M11)	
D251	8-719-911-19	DIODE 1SS119-25				<FERRITE BEAD>	
D252	8-719-914-42	DIODE DA204K		FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D301	8-719-041-97	DIODE MA113-(TX)		FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D302	8-719-041-97	DIODE MA113-(TX)		FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D303	8-719-041-97	DIODE MA113-(TX)		FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D304	8-719-041-97	DIODE MA113-(TX)		FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D305	8-719-041-97	DIODE MA113-(TX)		FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D306	8-719-911-19	DIODE 1SS119-25		FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D307	8-719-911-19	DIODE 1SS119-25		FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH (KV-G25M1 (ME) / (HK), KV-G25M11)	
D308	8-719-109-54	DIODE RD2.2ESB2		FB801	1-420-872-00	COIL, AIR CORE (KV-G25M1 (RUSS))	
D310	8-719-041-97	DIODE MA113-(TX)				<IC>	
D311	8-719-109-68	DIODE RD3.6ESB1		IC001	8-752-866-21	IC CXP85116B-615S	
D312	8-719-110-08	DIODE RD8.2ESB2		IC002	8-759-805-37	IC L78LR05D-MA	
D313	8-719-041-97	DIODE MA113-(TX)		IC003	8-759-093-95	IC CAT24C04P	
D314	8-719-041-97	DIODE MA113-(TX)		IC004	8-741-790-11	ELEMENT, RAY-CATCHER SBX1790-11	
D351	8-719-908-03	DIODE GP08D		IC102	8-759-157-40	IC UPC574J	
D401	8-719-421-40	DIODE MA77		IC203	8-759-336-30	IC TA8223K	
D402	8-719-911-19	DIODE 1SS119-25		IC300	8-759-339-50	IC TDA8366N3D	
D403	8-719-911-19	DIODE 1SS119-25		IC351	8-759-293-27	IC TDA4665	
D513	8-719-109-84	DIODE RD5.1ESB1					
D551	8-719-908-03	DIODE GP08D					
D561	8-719-911-19	DIODE 1SS119-25					



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F. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C330	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C609	1-126-600-11	ELECT 100MF 20% 160V	
C332	1-136-165-00	FILM 0.1MF 5% 50V		C610	1-126-942-61	ELECT 1000MF 20% 16V	
C333	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C612	1-102-228-00	CERAMIC 470PF 10% 500V	
C335	1-102-973-00	CERAMIC 100PF 5% 50V		C613	1-102-824-00	CERAMIC 470PF 5% 50V	
C337	1-124-916-11	ELECT 22MF 20% 50V					
C338	1-165-320-11	CERAMIC CHIP 0.47MF 10% 16V		C614	1-124-557-11	ELECT 1000MF 20% 25V	
C339	1-163-121-00	CERAMIC CHIP 150PF 5% 50V		C615	$\Delta$ 1-164-497-51	CERAMIC 470PF 10% 400V	
C340	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		C616	1-102-228-00	CERAMIC 470PF 10% 500V	
C342	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C620	1-136-619-11	FILM 0.0016MF 3% 2KV	
C344	1-124-907-11	ELECT 10MF 20% 50V		C621	$\Delta$ 1-136-548-13	FILM 0.1MF 20% 250V	
C350	1-104-664-11	ELECT 47MF 20% 16V		C622	1-106-383-00	MYLAR 0.047MF 10% 200V	
C351	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C623	1-124-120-11	ELECT 220MF 20% 16V	
C352	1-164-222-11	CERAMIC CHIP 0.22MF 20% 25V		C624	1-126-942-61	ELECT 1000MF 20% 16V	
C358	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C625	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C359	1-104-665-11	ELECT 100MF 20% 16V		C630	$\Delta$ 1-164-497-51	CERAMIC 470PF 10% 400V	
C367	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C631	1-161-830-00	CERAMIC 0.0047MF 99% 500V	
C368	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C801	1-123-024-21	ELECT 33MF 160V	
C369	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C802	1-106-367-00	MYLAR 0.01MF 10% 200V	
C370	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C804	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C374	1-124-910-11	ELECT 47MF 20% 50V		C805	1-102-244-00	CERAMIC 220PF 10% 500V	
C375	1-124-910-11	ELECT 47MF 20% 50V		C806	1-124-903-11	ELECT 1MF 20% 50V	
C402	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V		C807	1-136-540-11	FILM 0.82MF 5% 200V	
C403	1-124-916-11	ELECT 22MF 20% 50V		C808	1-130-959-00	FILM 0.047MF 10% 400V	
C405	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		C809	1-162-115-00	CERAMIC 330PF 10% 2KV	
C406	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		C810	1-106-365-00	MYLAR 0.0082MF 99% 200V	
C407	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		C811	1-162-318-11	CERAMIC 0.001M 10% 500V	
C408	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		C812	1-136-617-11	FILM 0.019M 3% 2KV	
C409	1-163-109-00	CERAMIC CHIP 47PF 5% 50V		C816	1-123-947-00	ELECT 10MF 20% 160V	
C410	1-163-103-00	CERAMIC CHIP 27PF 5% 50V		C820	1-162-135-11	CERAMIC 560PF 10% 2KV	
C411	1-163-113-00	CERAMIC CHIP 68PF 5% 50V		C821	1-106-391-12	MYLAR 0.1MF 10% 200V	
C412	1-163-113-00	CERAMIC CHIP 68PF 5% 50V		C822	1-136-541-11	FILM 1.5MF 5% 200V	
C413	1-104-665-11	ELECT 100MF 20% 16V		C823	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C414	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C825	1-106-367-00	MYLAR 0.01MF 10% 200V	
C415	1-163-017-00	CERAMIC CHIP 0.0047MF 10V 50V		C850	1-124-480-11	ELECT 470MF 20% 25V	
C416	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C852	1-104-574-11	CERAMIC 0.0047MF 10 2KV	
C417	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C853	1-162-318-11	CERAMIC 0.001MF 10% 500V	
C418	1-216-295-00	CONDUCTOR, CHIP (2012)		C854	1-124-480-11	ELECT 470MF 20% 25V	
C419	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C856	1-162-318-11	CERAMIC 0.001MF 10% 500V	
C420	1-104-664-11	ELECT 47MF 20% 16V		C857	1-130-493-00	MYLAR 0.068MF 5% 50V	
C422	1-216-295-00	CONDUCTOR, CHIP (2012)		C860	1-102-228-00	CERAMIC 470PF 10% 500V	
C423	1-216-295-00	CONDUCTOR, CHIP (2012)		C861	1-107-654-11	ELECT 33MF 20% 250V	
C424	1-216-295-00	CONDUCTOR, CHIP (2012)		C875	1-124-910-11	ELECT 47MF 20% 50V	
C425	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V		C876	1-108-702-11	MYLAR 0.068MF 10% 100V	
C501	1-102-228-00	CERAMIC 470PF 10% 500V		C891	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C523	1-104-665-11	ELECT 100MF 20% 16V		C898	1-106-379-12	MYLAR 0.033MF 10% 100V	
C548	1-106-220-00	MYLAR 0.1MF 10% 100V		C901	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C551	1-126-968-11	ELECT 100MF 20% 35V		C902	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C552	1-126-968-11	ELECT 100MF 20% 35V		C1201	1-104-665-11	ELECT 100MF 20% 16V	
C553	1-163-019-00	CERAMIC CHIP 0.0068MF 10% 50V		C1202	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C554	1-102-244-00	CERAMIC 220PF 10% 500V		C1204	1-104-665-11	ELECT 100MF 20% 16V	
C555	1-101-804-00	CERAMIC 10PF 5% 500V		C1205	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C562	1-104-665-11	ELECT 100MF 20% 16V		C1210	1-104-665-11	ELECT 100MF 20% 16V	
601	1-162-318-11	CERAMIC 0.001MF 10% 500V		C1213	1-124-903-11	ELECT 1MF 20% 50V	
J602	1-161-830-00	CERAMIC 0.0047MF 99% 500V		C1214	1-124-907-11	ELECT 10MF 20% 50V	
C604	1-125-483-11	ELECT(BLOCK) 470MF 20% 400V		C1217	1-104-665-11	ELECT 100MF 20% 16V	
C608	1-104-332-11	CERAMIC 470PF 10% 2KV		C1218	1-163-123-00	CERAMIC CHIP 180PF 5% 50V	
				C1221	1-164-005-11	CERAMIC CHIP 0.47MF 25V	



**KV-G25M1/G25M11**  
RM-870



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-065-00	METAL GLAZE 4.7K	5 1/10W	R266	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R027	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R301	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R028	1-216-025-00	METAL GLAZE 100	5% 1/10W	R302	1-216-035-00	METAL GLAZE 270	5% 1/10W
R029	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R303	1-216-025-00	METAL GLAZE 100	5% 1/10W
R030	1-216-085-00	METAL GLAZE 33K	5% 1/10W				
R031	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R304	1-216-025-00	METAL GLAZE 100	5% 1/10W
R033	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R305	1-216-025-00	METAL GLAZE 100	5% 1/10W
R035	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R306	1-216-025-00	METAL GLAZE 100	5% 1/10W
R036	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R307	1-216-025-00	METAL GLAZE 100	5% 1/10W
R038	1-216-033-00	METAL GLAZE 220	5% 1/10W	R308	1-216-033-00	METAL GLAZE 220	5% 1/10W
R040	1-216-033-00	METAL GLAZE 220	5% 1/10W	R309	1-216-033-00	METAL GLAZE 220	5% 1/10W
R041	1-216-025-00	METAL GLAZE 100	5% 1/10W	R310	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R042	1-216-039-00	METAL GLAZE 390	5% 1/10W	R311	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R043	1-216-079-00	METAL GLAZE 18K	5% 1/10W	R312	1-216-025-00	METAL GLAZE 100	5% 1/10W
R044	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R313	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R046	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R314	1-216-025-00	METAL GLAZE 100	5% 1/10W
R047	1-216-025-00	METAL GLAZE 100	5% 1/10W	R315	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R048	1-216-025-00	METAL GLAZE 100	5% 1/10W	R316	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R049	1-216-121-00	METAL GLAZE 1M	5% 1/10W				(KV-G25M11)
R050	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R317	1-216-049-00	METAL GLAZE 1K	5% 1/10W
							(KV-G25M11)
R051	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R318	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R052	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R319	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R054	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R320	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R057	1-216-049-00	METAL GLAZE 1K	5 1/10W	R321	1-216-689-11	METAL CHIP 39K	0.50% 1/10W
R059	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R322	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
				R324	1-216-121-00	METAL GLAZE 1M	5% 1/10W
R067	1-216-033-00	METAL GLAZE 220	5% 1/10W	R327	1-216-025-00	METAL GLAZE 100	5% 1/10W
R068	1-216-025-00	METAL GLAZE 100	5% 1/10W				(KV-G25M11)
R071	1-216-037-00	METAL GLAZE 330	5% 1/10W	R327	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M1)
R076	1-216-025-00	METAL GLAZE 100	5% 1/10W	R328	1-216-025-00	METAL GLAZE 100	5% 1/10W
R077	1-216-025-00	METAL GLAZE 100	5% 1/10W				(KV-G25M11)
R090	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R328	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M1)
R101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R329	1-216-025-00	METAL GLAZE 100	5% 1/10W
R102	1-216-049-00	METAL GLAZE 1K	5% 1/10W				(KV-G25M11)
R103	1-216-041-00	METAL GLAZE 470	5% 1/10W	R329	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M1)
R113	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R330	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R114	1-216-041-00	METAL GLAZE 470	5% 1/10W	R332	1-216-033-00	METAL GLAZE 220	5% 1/10W
R115	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R334	1-216-041-00	METAL GLAZE 470	5% 1/10W
R116	1-216-081-00	METAL GLAZE 22K	5% 1/10W				(KV-G25M11)
R117	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R335	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R118	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R119	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R336	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R120	1-216-109-00	METAL GLAZE 330K	5% 1/10W	R338	1-216-043-91	METAL GLAZE 560	5% 1/10W
R131	1-216-464-11	METAL OXIDE 18K	5% 2W	R339	1-216-036-00	METAL GLAZE 300	5% 1/10W
R180	1-216-033-00	METAL GLAZE 220	5% 1/10W	R340	1-216-035-00	METAL GLAZE 270	5% 1/10W
R181	1-216-033-00	METAL GLAZE 220	5% 1/10W	R341	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R182	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R242	1-216-043-91	METAL GLAZE 560	5% 1/10W	R351	1-216-001-00	METAL GLAZE 10	5% 1/10W
R243	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R355	1-216-001-00	METAL GLAZE 10	5% 1/10W
R244	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R356	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R245	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W	R403	1-216-021-00	METAL GLAZE 68	5% 1/10W
				R406	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R250	1-216-295-00	CONDUCTOR, CHIP (2012)		R407	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
R251	1-216-295-00	CONDUCTOR, CHIP (2012)		R408	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R252	1-249-411-11	CARBON 330	5% 1/4W	R409	1-216-025-00	METAL GLAZE 100	5% 1/10W
R253	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R410	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R254	1-249-389-11	CARBON 4.7	5% 1/4W	R411	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R265	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R412	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
				R413	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

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EF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC354	8-759-251-56	IC TDA8395T		Q208	8-729-901-01	TRANSISTOR DTC144EK	
IC401	8-759-800-65	IC LA7910		Q210	8-729-900-98	TRANSISTOR DTC143TK	
IC521	8-759-195-63	IC PQ09RE11		Q301	8-729-900-53	TRANSISTOR DTC114EK	
IC551	8-759-801-98	IC LA7830		Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (KV-G25M11)	
IC601	8-749-010-84	IC STR-S6708		Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC602	8-749-920-61	IC SE-135N		Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
$\Delta$ IC603	$\Delta$ 8-749-010-64	PHOTO COUPLER PC123F2		Q403	8-729-900-98	TRANSISTOR DTC143TK	
IC801	8-759-100-96	IC UPC4558G2		Q404	8-729-900-98	TRANSISTOR DTC143TK	
IC1210	8-759-100-96	IC UPC4558G2		Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
<JACK>				Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
J251	1-770-785-11	JACK		Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
J1201	1-770-660-11	JACK BLOCK, PIN 4P		Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J1202	1-695-238-11	JACK BLOCK, PIN 2P		Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
<CHIP CONDUCTOR>				Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
JR102	1-216-295-00	CONDUCTOR, CHIP (2012)		Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR103	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M11)		Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR104	1-216-295-00	CONDUCTOR, CHIP (2012)		Q413	8-729-900-98	TRANSISTOR DTC143TK	
<COIL>				Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L002	1-410-470-11	INDUCTOR 10UH		Q415	8-729-900-98	TRANSISTOR DTC143TK	
L003	1-408-411-00	INDUCTOR 15UH		Q416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		Q417	8-729-900-98	TRANSISTOR DTC143TK	
L301	1-408-609-41	INDUCTOR 33UH		Q418	8-729-900-98	TRANSISTOR DTC143TK	
L401	1-410-498-11	INDUCTOR 1.2UH		Q561	8-729-200-17	TRANSISTOR 2SA1091-0	
L402	1-410-510-11	INDUCTOR 12UH		Q601	8-729-120-28	TRANSISTOR 2SC2412K	
L403	1-410-510-11	INDUCTOR 12UH		Q801	8-729-140-96	TRANSISTOR 2SD774-34	
L404	1-410-508-11	INDUCTOR 8.2UH		Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
L405	1-410-508-11	INDUCTOR 8.2UH		Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
L406	1-410-507-11	INDUCTOR 6.8UH		Q902	8-729-901-01	TRANSISTOR DTC144EK	
L407	1-410-511-11	INDUCTOR 15UH		Q903	8-729-901-01	TRANSISTOR DTC144EK	
L408	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L409	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L410	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L411	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
L802	1-412-527-11	INDUCTOR 15UH		Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY		Q1265	8-729-900-98	TRANSISTOR DTC143TK	
L807	1-459-390-00	COIL (WITH CORE)		Q1513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L808	1-412-553-11	INDUCTOR 3.3MMH		<RESISTOR>			
L821	1-459-111-00	COIL, DRAM CORE (CDI)		R001	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L850	1-408-947-00	INDUCTOR 2.2MMH		R002	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
<TRANSISTOR>				R003	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q030	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R004	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q031	8-729-216-22	TRANSISTOR 2SA1162-G		R007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R008	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q109	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R009	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R010	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G		R012	1-216-017-00	METAL GLAZE 47 5% 1/10W	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G		R013	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R014	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R015	1-216-043-91	METAL GLAZE 560 5% 1/10W	
				R018	1-216-033-00	METAL GLAZE 220 5% 1/10W	
				R019	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
				R020	1-216-025-00	METAL GLAZE 100 5% 1/10W	
						(KV-G25M11)	

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The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R910	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	<TRANSFORMER>			
R911	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	T601	$\Delta$ 1-429-139-11	TRANSFORMER, CONVERTER (SRT)	
R913	1-216-041-00	METAL GLAZE 470	5% 1/10W	T605	$\Delta$ 1-424-461-11	TRANSFORMER, LINE FILTER	
R914	1-216-041-00	METAL GLAZE 470	5% 1/10W	T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
R915	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	T851	$\Delta$ 1-453-190-11	TRANSFORMER ASSY. (FLYBACK)	(NL-2743/M3B)
R1201	1-216-023-00	METAL GLAZE 82	5% 1/10W	<THERMISTOR>			
R1202	1-216-049-00	METAL GLAZE 1K	5% 1/10W	THP601A	$\Delta$ 1-810-961-11	THERMISTOR, POSITIVE	
R1203	1-216-089-00	METAL GLAZE 47K	5% 1/10W	<TUNER>			
R1205	1-216-023-00	METAL GLAZE 82	5% 1/10W	TU101	$\Delta$ 8-596-323-00	TUNER BT-AG401	
R1206	1-216-089-00	METAL GLAZE 47K	5% 1/10W	<CRYSTAL>			
R1211	1-216-021-00	METAL GLAZE 68	5% 1/10W	X101	1-577-082-11	VIBRATOR, CERAMIC	
R1212	1-216-049-00	METAL GLAZE 1K	5% 1/10W	X300	1-404-835-31	COIL, IF	
R1215	1-216-113-00	METAL GLAZE 470K	5% 1/10W	X358	1-567-505-11	OSCILLATOR, CRYSTAL	
R1216	1-216-113-00	METAL GLAZE 470K	5% 1/10W	X443	1-567-504-11	OSCILLATOR, CRYSTAL	
R1218	1-216-041-00	METAL GLAZE 470	5% 1/10W	*****			
R1219	1-216-073-00	METAL GLAZE 10K	5% 1/10W	*A-1331-428-A C BOARD, COMPLETE			
R1220	1-216-049-00	METAL GLAZE 1K	5% 1/10W	*****			
R1221	1-216-073-00	METAL GLAZE 10K	5% 1/10W	<CAPACITOR>			
R1227	1-216-689-11	METAL GLAZE 39K	5% 1/10W	C701	1-162-114-00	CERAMIC 0.0047MF 2KV	
R1228	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C702	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R1229	1-216-041-00	METAL GLAZE 470	5% 1/10W	C704	1-130-202-00	FILM 0.022MF 5% 400V	
R1230	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C708	1-102-114-00	CERAMIC 470PF 10% 50V	
R1231	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C709	1-102-114-00	CERAMIC 470PF 10% 50V	
R1232	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W	C710	1-102-114-00	CERAMIC 470PF 10% 50V	
R1233	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	C712	1-101-361-00	CERAMIC 150PF 5% 50V	
R1235	1-216-689-11	METAL GLAZE 39K	5% 1/10W	C713	1-102-971-00	CERAMIC 82PF 5% 50V	
R1239	1-249-389-11	CARBON 4.7	5% 1/4W	C714	1-101-361-00	CERAMIC 150PF 5% 50V	
R1240	1-216-025-00	METAL GLAZE 100	5% 1/10W	C716	1-124-122-11	ELECT 100MF 20% 50V	
R1241	1-216-049-00	METAL GLAZE 1K	5% 1/10W	<CONNECTOR>			
R1243	1-216-025-00	METAL GLAZE 100	5% 1/10W	CN701	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
R1245	1-216-037-00	METAL GLAZE 330	5% 1/10W	CN703	*1-564-509-11	PLUG, CONNECTOR 6P	
R1246	1-216-037-00	METAL GLAZE 330	5% 1/10W	CN704	1-695-915-11	TAB (CONTACT)	
R1247	1-216-041-00	METAL GLAZE 470	5% 1/10W	<DIODE>			
R1248	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W	D701	8-719-911-19	DIODE 1SS119-25	
R1249	1-216-041-00	METAL GLAZE 470	5% 1/10W	D702	8-719-911-19	DIODE 1SS119-25	
R1513	1-216-073-00	METAL GLAZE 10K	5% 1/10W	D703	8-719-911-19	DIODE 1SS119-25	
R1514	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	D704	8-719-911-19	DIODE 1SS119-25	
R1515	1-216-025-00	METAL GLAZE 100	5% 1/10W	D705	8-719-911-19	DIODE 1SS119-25	
<SWITCH>				D706	8-719-911-19	DIODE 1SS119-25	
SG01	$\Delta$ 1-762-087-11	SWITCH, PUSH (AC POWER)		D707	8-719-911-19	DIODE 1SS119-25	
S801	1-572-707-11	SWITCH, LEVER		D708	8-719-911-19	DIODE 1SS119-25	
S901	1-570-577-11	SWITCH, PUSH		D709	8-719-911-19	DIODE 1SS119-25	
S902	1-570-577-11	SWITCH, PUSH		D710	8-719-911-19	DIODE 1SS119-25	
S903	1-570-577-11	SWITCH, PUSH		<SPARK GAP>			
S904	1-570-577-11	SWITCH, PUSH		SG801	1-519-422-11	GAP, SPARK	
S905	1-570-577-11	SWITCH, PUSH		<FILTER>			
<SPARK GAP>				SWF401	1-760-771-11	FILTER, SURFACE WAVE	
<FILTER>							

The components identified by shading  
and mark **A** are critical for safety.  
Replace only with part number specified.

**A**

EF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R414	1-216-041-00	METAL GLAZE 470	5% 1/10W	R617	1-215-924-00	METAL OXIDE 15K	5% 3W F
R415	1-216-033-00	METAL GLAZE 220	5% 1/10W	R619	1-249-377-11	CARBON 0.47	5% 1/4W F
R416	1-216-033-00	METAL GLAZE 220	5% 1/10W	R621	1-211-748-11	FUSIBLE 5.6	5% 5W F
				R622	1-217-190-21	WIREWOUND 0.15	10% 2W F
R417	1-216-033-00	METAL GLAZE 220	5% 1/10W	R623	1-247-807-31	CARBON 100	5% 1/4W
R418	1-216-045-00	METAL GLAZE 680	5% 1/10W				
R419	1-216-049-00	METAL GLAZE 1K	5 1/10W	R624	1-215-881-11	METAL OXIDE 15	5% 2W F
R420	1-216-039-00	METAL GLAZE 390	5% 1/10W	R625	1-249-424-11	CARBON 3.9K	5% 1/4W
R421	1-216-033-00	METAL GLAZE 220	5% 1/10W	R626	1-249-420-11	CARBON 1.8K	5% 1/4W
				R627	1-249-417-11	CARBON 1K	5% 1/4W
R422	1-216-027-00	METAL GLAZE 120	5% 1/10W	R628	1-249-417-11	CARBON 1K	5% 1/4W
R423	1-216-029-00	METAL GLAZE 150	5% 1/10W				
R424	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R629	1-249-401-11	CARBON 47	5% 1/4W
R425	1-216-039-00	METAL GLAZE 390	5% 1/10W	R635	1-215-882-00	METAL OXIDE 22	5% 2W F
R426	1-216-029-00	METAL GLAZE 150	5% 1/10W			(KV-G25M11)	
				R636	1-215-924-00	METAL OXIDE 15K	5% 3W F
R427	1-216-037-00	METAL GLAZE 330	5% 1/10W	R801	1-215-920-11	METAL OXIDE 3.3K	5% 3W F
R428	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R802	1-249-387-11	CARBON 3.3	5% 1/4W F
R429	1-216-039-00	METAL GLAZE 390	5% 1/10W				
R430	1-216-041-00	METAL GLAZE 470	5% 1/10W	R804	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R431	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R805	1-216-081-00	METAL GLAZE 22K	5% 1/10W
				R808	1-535-303-00	LEAD, JUMPER (5.0MM)	
R432	1-216-041-00	METAL GLAZE 470	5% 1/10W	R809	1-247-756-11	CARBON 2.2K	5% 1/2W F
R433	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R811	1-216-346-00	METAL OXIDE 0.56	5% 1W F
R434	1-216-041-00	METAL GLAZE 470	5% 1/10W				
R435	1-216-041-00	METAL GLAZE 470	5% 1/10W	R812	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R436	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R816	1-249-430-11	CARBON 12K	5% 1/4W
				R820	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R437	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R821	1-215-910-00	METAL OXIDE 68	5% 3W F
R440	1-216-029-00	METAL GLAZE 150	5% 1/10W	R822	1-216-429-00	METAL OXIDE 270	5% 1W F
R441	1-216-021-00	METAL GLAZE 68	5% 1/10W				
R521	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R823	1-247-756-11	CARBON 2.2K	5% 1/2W F
R552	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R825	1-249-392-11	CARBON 8.2	5% 1/4W F
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)		R826	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
				R827	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R553	1-216-295-00	CONDUCTOR, CHIP (2012)		R828	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)					
R555	1-249-429-11	CARBON 10K	5% 1/4W	R829	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R556	1-216-049-00	METAL GLAZE 1K	5 1/10W	R831	1-216-426-11	METAL OXIDE 82	5% 1W F
R557	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R832	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R560	1-216-295-00	CONDUCTOR, CHIP (2012)		R834	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R851	1-249-382-11	CARBON 1.2	5% 1/4W F
R561	1-249-421-11	CARBON 2.2K	5% 1/4W				
R562	1-249-420-11	CARBON 1.8K	5% 1/4W	R852	1-249-923-11	CARBON 1K	5% 1/4W F
R563	1-247-885-00	CARBON 180K	5% 1/4W	R853	1-249-377-11	CARBON 0.47	5% 1/4W F
R564	1-216-091-00	METAL GLAZE 56K	5% 1/10W	R854	1-249-377-11	CARBON 0.47	5% 1/4W F
R565	1-216-091-00	METAL GLAZE 56K	5% 1/10W	R855	1-202-818-00	SOLID 1K	20% 1/2W
				R856	1-249-425-11	CARBON 4.7K	5% 1/4W
R566	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R569	1-247-883-00	CARBON 150K	5% 1/4W	R857	1-249-438-11	CARBON 56K	5% 1/4W
R570	1-216-295-00	CONDUCTOR, CHIP (2012)		R858	1-216-370-11	METAL OXIDE 1.2	5% 2W FZ
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)		R860	1-247-887-00	CARBON 220K	5% 1/4W
R603	1-249-416-11	CARBON 820	5% 1/4W	R881	1-216-043-91	METAL GLAZE 560	5% 1/10W
R604	1-249-416-11	CARBON 820	5% 1/4W	R882	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R606	1-215-915-11	METAL OXIDE 470	5% 3W F	R883	1-216-121-00	METAL GLAZE 1M	5% 1/10W
R608	1-535-303-00	LEAD, JUMPER (5.0MM)		R895	1-216-348-00	METAL OXIDE 0.82	5% 1W F
R609	1-249-381-11	CARBON 1	5% 1/4W	R898	1-249-421-11	CARBON 2.2K	5% 1/4W
R610	1-215-924-00	METAL OXIDE 15K	5% 3W F	R902	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R611	1-202-933-61	FUSIBLE 0.1	10% 1/2W F	R904	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R612	1-249-377-11	CARBON 0.47	5% 1/4W F	R905	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R613	1-249-377-11	CARBON 0.47	5% 1/4W F	R906	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R614	1-215-877-11	METAL OXIDE 22K	5% 1W F	R907	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R615	1-249-389-11	CARBON 4.7	5% 1/4W	R908	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R616	<b>A</b> 1-216-265-91	METAL 8.2M	5% 1W	R909	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W

## KV-G25M1/G25M11

RM-870

F<sub>1</sub>V<sub>1</sub>

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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>				<IC>			
T1601	A-424-436-11	TRANSFORMER LINE FILTER		IC01	8-759-324-28	IC P83C654	
T1602	A-424-436-11	TRANSFORMER LINE FILTER		IC02	8-759-298-63	IC SAA5281ZP/E	
*****				<CHIP CONDUCTOR>			
*A-1347-103-A V1 BOARD, COMPLETE (KV-G25M11)				JR02	1-216-295-00	CONDUCTOR, CHIP (2012)	
*****				JR03	1-216-295-00	CONDUCTOR, CHIP (2012)	
<CAPACITOR>				JR04	1-216-295-00	CONDUCTOR, CHIP (2012)	
C01	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		JR07	1-216-295-00	CONDUCTOR, CHIP (2012)	
C02	1-124-907-11	ELECT 10MF 20% 50V		JR08	1-216-295-00	CONDUCTOR, CHIP (2012)	
C03	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		<COIL>			
C04	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		L01	1-410-464-11	INDUCTOR 3.3UH	
C05	1-124-907-11	ELECT 10MF 20% 50V		L03	1-410-464-11	INDUCTOR 3.3UH	
C06	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V		L04	1-410-464-11	INDUCTOR 3.3UH	
C07	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		L05	1-410-464-11	INDUCTOR 3.3UH	
C08	1-163-097-00	CERAMIC CHIP 15PF 5% 50		L06	1-410-464-11	INDUCTOR 3.3UH	
C09	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		<TRANSISTOR>			
C10	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C11	1-164-346-11	CERAMIC CHIP 1MF 16V		Q02	8-729-900-53	TRANSISTOR DTC114EK	
C12	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C13	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C14	1-216-295-00	CONDUCTOR, CHIP (2012)		Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
C15	1-124-482-11	ELECT 33MF 20% 35V		Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C16	1-126-963-11	ELECT 4.7MF 20% 50V		Q07	8-729-019-01	TRANSISTOR 2SD2394-EF	
C17	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q08	8-729-140-96	TRANSISTOR 2SD774-34	
C19	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q09	8-729-901-04	TRANSISTOR DTA114EK	
C22	1-124-907-11	ELECT 10MF 20% 50V		<RESISTOR>			
C23	1-163-038-00	CERAMIC CHIP 0.1MF 25V		R01	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
C25	1-124-907-11	ELECT 10MF 20% 50V		R02	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C26	1-124-119-00	ELECT 330MF 20% 16V		R03	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
C27	1-104-665-11	ELECT 100MF 20% 16V		R04	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C28	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R05	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C29	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R06	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C30	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R07	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C31	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R08	1-216-025-00	METAL GLAZE 100 5% 1/10W	
<CONNECTOR>				R09	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
CN01	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		R10	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
<DIODE>				R11	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
D001	8-719-105-51	DIODE RD3.6M-B1		R12	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
D03	8-719-914-43	DIODE DAN202K		R13	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
D04	8-719-105-91	DIODE RD5.6M-B2		R16	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D05	8-719-914-44	DIODE DAP202K		R17	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
D06	8-719-914-43	DIODE DAN202K		R18	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
<FERRITE BEAD>				R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
FB01	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R21	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R22	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R24	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R25	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

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F. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D711	8-719-911-19	DIODE 1SS119-25		R726	1-249-422-11	CARBON 2.7K 5% 1/4W	
D712	8-719-911-19	DIODE 1SS119-25		R727	1-249-422-11	CARBON 2.7K 5% 1/4W	
D716	8-719-911-19	DIODE 1SS119-25		R728	1-215-410-00	METAL 360 1% 1/4W	
D717	8-719-121-24	DIODE RD9.1ESL		R729	1-215-410-00	METAL 360 1% 1/4W	
		<JACK>		R730	1-215-410-00	METAL 360 1% 1/4W	
J701	$\Delta$ 1-251-239-21	SOCKET, CRT		R731	1-535-303-00	LEAD, JUMPER (5.0MM)	
		<COIL>		R732	1-535-303-00	LEAD, JUMPER (5.0MM)	
L701	1-410-667-31	INDUCTOR 22UH		R733	1-535-303-00	LEAD, JUMPER (5.0MM)	
L702	1-535-303-00	LEAD, JUMPER (5.0MM)		R734	1-247-739-11	CARBON 100 5% 1/2W	
L703	1-408-609-41	INDUCTOR 33UH		R738	1-247-807-31	CARBON 100 5% 1/4W	
L704	1-535-303-00	LEAD, JUMPER (5.0MM)		R739	1-247-807-31	CARBON 100 5% 1/4W	
L705	1-408-609-41	INDUCTOR 33UH		R740	1-247-807-31	CARBON 100 5% 1/4W	
L706	1-535-303-00	LEAD, JUMPER (5.0MM)		R747	1-216-489-11	METAL OXIDE 27K 5% 3W	F
L707	1-408-609-41	INDUCTOR 33UH		R749	1-216-490-11	METAL OXIDE 39K 5% 3W	F
		<TRANSISTOR>		R751	1-215-926-00	METAL OXIDE 33K 5% 3W	F
Q701	8-729-326-11	TRANSISTOR 2SC2611		R753	1-249-429-11	CARBON 10K 5% 1/4W	
Q702	8-729-326-11	TRANSISTOR 2SC2611		R755	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q703	8-729-326-11	TRANSISTOR 2SC2611		R756	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q704	8-729-326-11	TRANSISTOR 2SC2611		R757	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q705	8-729-326-11	TRANSISTOR 2SC2611		R758	1-249-419-11	CARBON 1.5K 5% 1/4W	
Q706	8-729-326-11	TRANSISTOR 2SC2611		R759	1-249-419-11	CARBON 1.5K 5% 1/4W	
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		R760	1-249-419-11	CARBON 1.5K 5% 1/4W	F
Q708	8-729-200-17	TRANSISTOR 2SA1091-0				<VARIABLE RESISTOR>	
Q709	8-729-200-17	TRANSISTOR 2SA1091-0		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE				*****	
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE				*A-1241-190-A F1 BOARD, COMPLETE (KV-G25M1 (RUSS)	
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE				*****	
Q714	8-729-255-12	TRANSISTOR 2SC2551-0				1-533-223-11 CLIP, FUSE	
		<RESISTOR>				<CAPACITOR>	
R701	1-244-941-00	CARBON 680K 5% 1/2W				C1601 $\Delta$ 1-104-706-51 FILM 0.22MF 20% 250V	
R702	1-249-496-11	CARBON 100K 5% 1/2W				<CONNECTOR>	
R703	1-249-496-11	CARBON 100K 5% 1/2W				CN1601 *1-580-843-11 PIN, CONNECTOR (POWER)	
R705	1-216-392-11	METAL OXIDE 1.8 5% 3W	F			CN1602 *1-580-843-11 PIN, CONNECTOR (POWER)	
R710	1-215-899-11	METAL OXIDE 15K 5% 2W	F			<FUSE>	
R711	1-247-758-11	CARBON 3.3K 5% 1/2W				F1601 $\Delta$ 1-532-465-31 FUSE TIME-LAG (BET) 3.15A/250V	
R712	1-215-899-11	METAL OXIDE 15K 5% 2W	F			<RESISTOR>	
R713	1-247-758-11	CARBON 3.3K 5% 1/2W				R1601 $\Delta$ 1-202-916-91 SOLID 5.6M 20% 1/2W	
R714	1-215-899-11	METAL OXIDE 15K 5% 2W	F				
R715	1-247-758-11	CARBON 3.3K 5% 1/2W					
R716	1-249-899-11	CARBON 100 5% 1/4W	F				
R717	1-249-405-11	CARBON 100 5% 1/4W	F				
R718	1-249-899-11	CARBON 100 5% 1/4W	F				
R719	1-215-487-00	METAL 560K 1% 1/4W					
R720	1-249-417-11	CARBON 1K 5% 1/4W	F				
R721	1-215-491-00	METAL 820K 1% 1/4W					
R722	1-249-923-11	CARBON 1K 5% 1/4W	F				
R723	1-215-489-00	METAL 680K 1% 1/4W					
R724	1-249-417-11	CARBON 1K 5% 1/4W	F				
R725	1-249-422-11	CARBON 2.7K 5% 1/4W					

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

V<sub>1</sub>

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R27	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W			REMOTE COMMANDER	
R28	1-216-025-00	METAL GLAZE 100	5% 1/10W			*****	
R29	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R30	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W				
R31	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R32	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W				
R33	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R34	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R35	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R36	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R37	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R38	1-260-085-11	CARBON 68	5% 1/2W				
R41	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W				
R43	1-216-295-00	CONDUCTOR, CHIP (2012)					
R44	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W				
R45	1-216-021-00	METAL GLAZE 68	5% 1/10W				
R46	1-216-021-00	METAL GLAZE 68	5% 1/10W				
R47	1-216-021-00	METAL GLAZE 68	5% 1/10W				
		<CRYSTAL>					
X01	1-579-266-31	CRYSTAL VIBRATOR					
*****							
		MISCELLANEOUS					
		*****					
		1-544-453-21 SPEAKER (2CM)					
		1-504-305-11 SPEAKER (5X12CM)					
		$\Delta$ 8-733-224-05 PICTURE TUBE (MGKWL10K)					
		$\Delta$ 8-451-404-11 DEFLECTION Yoke (Y2551AS)					
		$\Delta$ 1-403-019-11 COIL, DEMAGNETIZATION					
		$\Delta$ 1-504-062-22 CAB. POWER (WITH CONNECTION)					
		2-54V250W					
		(KV-G25M1 (ME)/M1 (RUSS) 2001)					
		$\Delta$ 1-769-609-21 CAB. POWER (WITH CONNECTION)					
		(KV-G25M1 (HK))					
*****							
		ACCESSORIES AND PACKING MATERIALS					
		*****					
		3-800-141-21 MANUAL, INSTRUCTION (KV-G25M1 (ME))					
		3-800-141-41 MANUAL, INSTRUCTION					
		(KV-G25M1 (HK)/M11)					
		3-800-141-51 MANUAL, INSTRUCTION (KV-G25M1 (RUSS))					
		* 4-029-168-01 BAG, PROTECTION (KV-G25M11)					
		* 4-039-372-01 BAG, PROTECTION (KV-G25M1)					
		3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)					
		4-392-003-11 BAND, HOLD					
		4-392-004-11 CLIP					
		$\Delta$ 1-568-068-11 ADAPTER, CONVERSION 2P					
		(KV-G25M1 (ME)/M1 (RUSS))					
		* 4-047-806-01 CUSHION (UPPER) (ASSY) (KV-G25M1)					
		* 4-047-807-01 CUSHION (LOWER) (ASSY) (KV-G25M1)					
		* 4-047-808-01 INDIVIDUAL CARTON (KV-G25M1)					